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Lecture 11th

Cont. - At our last Lecture I divided the Faculties of the mind into Memory Immagination understanding and will - Perceptive & Moral Faculties the last I subdivided into Sense of Duty Conscience and Moral Faculty Shutty so called -

I Memory is one of the most wonderful faculties of the mental Faculties, without it the others are useless - Doctr Reed very justly observes if the Phenomena of memory were not so familiar to us we should be as much at a loss to comprehend how it were possible for us to know the events which occured 20 years ago, as it now is for us to conceive of Prescience one the attributes of Deity - Memory is of two kinds or ready active, and retentive - the Latter characterizes the more thoughtful and the man of Genius perpetuates both - Memory commences at a very early period of our life - Shake Speare the Philosopher of Nature places its origin at about the third year - hence in his tempest he makes Prospero ask his daughter Miranda who was cast on the Enchanted Island

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at 3 years of age whether she recollects any thing
of her native Country -

" By what? by any other house or Person
Of any thing the Image tell me
That hath kept in thy remembrance -

Her family is very much excited in the first years of life - Infants have much to acquire in their first years - they learn not only a language consisting of an immense number of words - but also the Ideas which these words convey and the things of wh they are the names hence Dr Gregory very happily and truly reports that a child acquires more knowledge in the first 3 years of its life than in 30 years after words - memory distinguishes the Philosopher from the most learned man - Civilization has a powerfull influence on their family - Indians for Instance possess it in a very limited degree - their method of treating with their enemies - shews us an example of their limited memories - they arrange them selves in a row when they are to hear a speech or treaty read so close that they can touch each other - when one of them has heard as ~~much as~~ a few words as many as

Rush, Benjamin, 1745-1813
Dr. Russel Clark Paris
1 Jl 37
796954

[illegible]
[illegible] ~~[illegible]~~ [illegible]
the same [illegible] – [illegible]
[illegible]
[illegible]
[illegible]
Some Drugs [illegible] memo-
[illegible]
[illegible]
[illegible] of [illegible]
of [illegible]
of [illegible] memory of [illegible]
of Numbers, of Names & of Ideas – [illegible]
[illegible] Players [illegible] the memory of words [illegible]
[illegible]
[illegible]
[illegible]
of [illegible] 403 [illegible]

[illegible] most amazing memory
for names [illegible] of 100,000 men
[illegible] all [illegible] by [illegible]
[illegible] name – [illegible] numbers
[illegible]
[illegible] a most [illegible]

ided at Buxton [illegible]

are

[illegible] of [illegible] [illegible]

of [illegible] [illegible] [illegible]

[illegible]

2 [illegible] [illegible] –

[illegible] of the [illegible] of [illegible]

[illegible] rather a philosophic frame a man of Learning – [illegible] to a [illegible]

[illegible] all the kinds of memory – [illegible]

[illegible] [illegible]

[illegible] a fit of spleen [illegible]

[illegible] of [illegible] [illegible] for [illegible]

[illegible] upon [illegible]

by the mass of memory. [illegible] imagination

[illegible] a faculty [illegible]

[illegible] has [illegible]

[illegible] imagination [illegible]

[illegible] 2nd imagination [illegible]

[illegible] imagination [illegible]

[illegible] same house of the

[illegible] may be compared to [illegible]

[illegible] monument

[illegible] material [illegible]

[illegible] Dr. [illegible] Shakespeare

[illegible] material

[illegible] of silver

[illegible] further [illegible]

[illegible] of the human mind. For the

immortal Shakespeare [illegible] characters all

[illegible] Papers [illegible] to [illegible]

[illegible] where the [illegible] of his [illegible] all al-

[illegible] in an [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] moral faculties [illegible]

[illegible] other faculties and thus

[illegible] Consequently the first division [illegible] be

[illegible] Rational faculties [illegible] thought

[illegible] most [illegible] — Consequently the division

[illegible] power of Volitions [illegible] one [illegible]

[illegible] is [illegible] [illegible] to which we are

[illegible] — [illegible] compared to a voyage

[illegible] moral faculties [illegible] and the

[illegible] of Dick, is our Pilot who guides us to the

[illegible] port [illegible] Reason is so extensive

[illegible] — as well might we say [illegible] Reason

[illegible] for [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] as

[illegible]

[illegible] the almighty, he will not leave

[illegible] on earth [illegible]

[illegible] ~~the road~~ [illegible] come-

[illegible] to the end — [illegible]

[illegible]

as much as we regret [illegible] of Christian [illegible]

[illegible] reason for

[illegible]

[illegible] following lines, [illegible]

[illegible] case [illegible]

[illegible] of [illegible]

[illegible] we not [illegible]

[illegible]

[illegible] of [illegible] at our

knowledge [illegible] state [illegible] of [illegible]

[illegible] last [illegible]

[illegible] to acquire [illegible] of [illegible]

[illegible] state [illegible]

[illegible] our [illegible] of the

[illegible] may be [illegible]

[illegible]

[illegible]

[illegible] faculties — let me [illegible] reflection, [illegible] will neglect [illegible] the [illegible] Price [illegible] their Inventors — [illegible]

[illegible]

[illegible]

[illegible] — [illegible]

[illegible]

[illegible]

[illegible] Ideas are [illegible] extent of memory — infinite; [illegible] for Ideas can [illegible] more than words can fill a room!

[illegible] Revolve into two kinds, pt. ideas of sensible substances 2d. of mixtures of motion and Idea which is what I pt. calls Actions or thoughts — Ideas are then formed [illegible] motion in the brain as well as formation a mixture of this motion constitutes [illegible] or speculation

[illegible] Speculation is a combination of memory [illegible] all have a generation of [illegible] tomorrow at looking at the function or a [illegible] of seeing before both are excited [illegible] of the same time and apposition [illegible] — [illegible] head total [illegible] or [illegible] when [illegible] of a [illegible]

[illegible] the name of [illegible]

[illegible] without

[illegible]

the similar sound recalls Dreams - Thus the birds are melancholy when they hear a certain tune played (as it recalls the dirge of Poor Sorrows -) and yet words are remarkable circumstances of association exists between words - if I hear for instance the first line of a Poem I am able to repeat all the subsequent ones - some persons from association are strangely affected at the pronunciation of certain words - I knew a gentleman who had formerly been at the terrible Earthquake at Lisbon who was seized with great horror at the pronunciation of the word Earthquake the word blood had a similar influence on an English gentleman at Liverpool he was seized with a fainting when ever it was pronounced - one time in particular being invited to dine out with a party of gentlemen among whom was a Colonel Tarlton a hero during the revolutionary war - after dinner in the course of conversation Dr. Dwight asked about an engagement in wh he was concerned (the previously caution against mentioning this word) he unfortunately pronounced the word blood shed there - the gentleman instantly fell back from his chair and fainted - a lady was affected in like manner at the pronunciation of the word Jesus as he associated that word with the idea of a

most dreadfull thunder Storm currency wh
he heard his mother pronounce that awfull
word, at the moment She was struck with
Lightning — 10th words which have no im-
mediate concern with the Idea or event and yet
resemble it in some Particularities — thus a
Person who formerly lived in this City by the
name of Alexander Alexander was sought after by
a man who forgot his name he accosted a man
and asked him if he knew a person such as he
discribed but whose name he forgot "it was
something like Paint no Paint" the man instan-
tly recollected Alexander, Alexander who cum
after went by the name of Paint no Paint
11th Certain degrees of heat & Cold, or temp-
erature exert an influence on operation —
thus the first warm day in winter gives us an
Idea of Spring and all its enjoyments — This is
a most pleasing Sensation & have excited it a
hundred times 12th Customs has a pow-
erfull influence — 13th interest. The miser
never forgets the place where he deposits his
money —

3. Judgment. may be defined a continued
and combined exercise of understanding and
memory

memory. perhaps the word combination would
aptly more properly it consists in making and
one simple pronunciation from two or more
Ideas acquired either by apprehension or directly from
the memory, for example if I am called to see
a Patient in a Gaol or board a prison Ship
and if I find him labouring under the plague or
another more of his companions have in common wt
him & if I suppose the disease in all proceeds from
the same cause. Contagion this I say is an act of
Judgment. the Ideas excited in my mind are such as
to make me suppose contagion to be the cause I
exert my Judgment in this case — a difference
however between reason & Judgment may be defined

An instance of the ~~Judgment may be defined~~ first
as I first observed arises ~~However~~ from two or more
Ideas

[illegible]

[illegible] called [illegible]

[illegible] common [illegible] differs from [illegible]

[illegible] What [illegible]

[illegible] the alterations of [illegible]

[illegible] the [illegible] of [illegible]

[illegible] or reason — some have [illegible]

[illegible] that [illegible]

[illegible]

[illegible] Relation [illegible] the Creatr — I [illegible] are [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

3° [illegible]

[illegible]

[illegible]

[

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] of [illegible] and the [illegible] of
[illegible] of all [illegible] from
[illegible] in some cases a [illegible] pleasure
[illegible] — this [illegible]
[illegible] the [illegible] of [illegible]
[illegible] with [illegible]

[illegible]

Pleasures of the senses [illegible]
[illegible] will [illegible]
mean the Pleasure of Dying! [illegible]
[illegible] it is not the [illegible] is Pleasure it
is [illegible] life but in many cases [illegible] the dread
of death is a very common expression but is
not always [illegible] — Pain does not
always accompany the extinction of Life —
The same [illegible] Drake [illegible]

"O the Pain the bliss of dying!"

The late Doctr William Hunter in his last moments
was [illegible] the following words to a friend at his bed
side "If I wish I had a pen and ink and was able to
write how I might describe my feelings [illegible]
how pleasant I think it is to die" General
[illegible] who fell on the 4th of Novr 1791 at
Saint Clair's defeat, expressed when leaving [illegible]

ing

[illegible] not expect [illegible] so pleasant an [illegible]
[illegible] To [illegible] are [illegible]
pleasant [illegible] the placid counte-
nance [illegible] are observable in some persons [illegible]
[illegible] form a striking contrast [illegible]
[illegible] some [illegible]
[illegible] the pleasure [illegible]
[illegible] of all the world —

[illegible] Monsieur [illegible] of
an idea he formed of making [illegible] similar
to a musical one [illegible] of Pleas-
ure arising from the application of certain sub-
stances to the [illegible] be made — [illegible]
[illegible] was an ingenious [illegible] & might
possibly be carried into effect — — — The next sub-
ject [illegible] consideration is the Pleasure de-
rived from the Sense of Taste

[illegible] lines [illegible] its sup-
[illegible] — but
[illegible] us of our comp-
[illegible] the sense of [illegible], than we
ought to [illegible] — The Pleasures of the
[illegible] acquire additional [illegible] — [illegible]
[illegible] them used by [illegible] to make

a

a [illegible] meal on food [illegible] at all times would be very unpleasant — [illegible] [illegible] takes many [illegible] agreeable to the taste which are originally unpleasant — this shows that most [illegible] [illegible] becomes pleasant by habituating ourselves to it — [illegible] also we explain the [illegible] or [illegible] we become pleasant — [illegible] Plica Polonica or the [illegible] is natural to the natives of that country — hence the [illegible] of the [illegible] of Iceland [illegible] [illegible] [illegible] — hence the French sometimes season their [illegible] with Assafoetida —

To relate the simple objects of taste would require a volume — not to mention their infinite varieties when compounded — the combination of acid, mustard, as vinegar, pepper and [illegible] condiments become necessary to stimulate the appetite when it begins to flag — and also to increase the pleasure of taste by increasing the sensability of the tongue (its papillae) — the epicure [illegible] [illegible] [illegible] [illegible] by [illegible] [illegible] dishes [illegible] he attempts to eat —

[illegible] [illegible] is [illegible] a pleasure [illegible] [illegible] the [illegible] [illegible] [illegible] we [illegible] of the table [illegible]

[illegible] always [illegible] gourmands have been [illegible] in the [illegible] article of [illegible] the pleasure of eating, to increase by a concentration of sensation in the tongue & to abstract it from other senses —

[illegible] relates a case of a patient of his who had an inflammation of his eyes & just brought on by gourmandising, or at least [illegible] by it [illegible] from being [illegible] at last told him of the danger of losing his eyes unless he abstain[illegible] somewhat from his [illegible] in eating, he replied "[illegible] I have seen enough [illegible], but I have not eat enough before; I will eat on at the expence of my [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] went off to a [illegible] [illegible] [illegible] [illegible] the whole of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] meal —

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] instances [illegible] much of [illegible]

[illegible]

[illegible] 13th

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] various colors wh suit their complexions –
[illegible] [illegible] [illegible] [illegible] [illegible] the fashions of the
[illegible] 3d [illegible] [illegible] much pleasure from
[illegible] [illegible] [illegible] [illegible] figure [illegible] in
[illegible] [illegible] [illegible] denominates the ~~[illegible]~~ line of
Beauty [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] is a particular it is a particular curved li
[illegible] [illegible] most [illegible] [illegible] human figure
[illegible] [illegible] [illegible] [illegible] [illegible] animal in [illegible]
[illegible] [illegible] the same [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] waving a circle or deeper than
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] former [illegible] [illegible] latter
[illegible] [illegible] [illegible] [illegible] [illegible] common
[illegible] [illegible] Venus [illegible] [illegible]
[illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] – [illegible] [illegible] motion – [illegible]
[illegible] [illegible] [illegible] compared the gentle [illegible]
[illegible]" all [illegible] [illegible] most [illegible] [illegible] &
[illegible] [illegible] must be [illegible] – Milton [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] as "[illegible] moveing without step" &
[illegible] [illegible] pleasure [illegible] feel in [illegible] [illegible]
[illegible] – [illegible] [illegible] [illegible] for pleasure –

please. P. is now motion x 2. then
a is a time of motion — this was science of
measurable of equivalent units. Such as is the
income — extract est necessary, since the Tri-
bes are claimed — a tax was collected and
received for it and remained [illegible] in
[illegible] to the [illegible] 60 miles beyond
for the village bazaars [illegible] in
[illegible] mountains which [illegible] to
[illegible] at the Pass [illegible] — Mr. Bid-
[illegible] describes the artificial [illegible] exude
[illegible] and by the emotion of [illegible] [illegible] of
[illegible] a light for 100 miles — Mr. Bruce describes
[illegible] with the [illegible] of immense waterfalls of
[illegible] — he [illegible] a [illegible] all the [illegible] of
[illegible] he [illegible] encountered [illegible] [illegible]
on the ground [illegible] — [illegible] forget the
[illegible] [illegible] [illegible] [illegible]
[illegible] was again lagoon by water — the wind of
Queen Sheba died without her [illegible] [illegible]
[illegible] figures [illegible] [illegible] of [illegible] [illegible]
Night [illegible] [illegible] [illegible] [illegible]
[illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] the moon
[illegible] [illegible] — the [illegible] [illegible] [illegible]

[illegible] the [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] the world in
[illegible] [illegible] ascending in a balloon into the higher regions of
the air [illegible] — [illegible] of rain & motion [illegible]
[illegible] the pleasure we enjoy in looking at distant
objects with telescopes [illegible] these [illegible] as a
[illegible] [illegible] [illegible] — what can be more
sublime than the sight of a sea agitated in
tempest beating upon the shore? —
[illegible] Contrast adds much to the pleasures of
[illegible] [illegible] hence Dr. [illegible] observes" he is [illegible]
[illegible] [illegible] should be [illegible] regular" but [illegible]
[illegible] [illegible] [illegible] — Mr. Niemcewicke who ac-
companied General Kosciusko informed me when in
this city that the sight of green leaf gave him
the greatest pleasure he had experienced from any
one or any object immediately after being set at
liberty from a confinement of two years in a
jail at Petersburgh where he could see nothing
but the black walls of his prison for that
space of Time — I shall conclude this subject
with a few lines from Mr Gray

[illegible] - perhaps [illegible] [illegible] the same [illegible] [illegible] [illegible]

all were intended to predominate in God
[illegible] animal in creation [illegible] animal without
[illegible] it — the sight of the earth have been
without conforming it — the [illegible] produce
nothing [illegible] — [illegible]
a Paradise — the [illegible] without [illegible]
[illegible] it — the sound of musical instruments
would [illegible] of pleasing us — in a
[illegible] every taste would have been a bitter — even
[illegible] a dream — much [illegible] has
been said about the equal rights of man —
had [illegible] nature intended man to be an equal
[illegible] rights [illegible] [illegible]
[illegible] in the [illegible] of [illegible] he [illegible]
been [illegible] of [illegible] — [illegible]
[illegible] of [illegible]
[illegible] pleasure with the eyeballs of [illegible]
[illegible] which is at the most [illegible]

[illegible]

[illegible]
[illegible] concert — [illegible] to
[illegible] ends [illegible]
[illegible]
had [illegible] of man! [illegible]
[illegible] me and [illegible]

[illegible]

[illegible] tion [illegible] at-
tons of equal force can be constant
[illegible] of this [illegible] [illegible] to
[illegible] [illegible] [illegible]
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

in a room by the imagination [illegible] to rise in balloons and build castles in the air!

In estimating the [illegible] of [illegible] one of most [illegible] the most delicate [illegible] the faculty [illegible] for the [illegible] of taste – Michelangelo [illegible] difficult problem could not help exclaiming in the midst of [illegible] [illegible] I [illegible] faith [illegible] [illegible] [illegible] that we [illegible] [illegible] the pleasures of taste [illegible] imposition [illegible] [illegible] that of the [illegible] [illegible] exquisite [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]
[illegible] a pleasure [illegible] to sight at [illegible]
[illegible] like [illegible]
[illegible] be [illegible]
[illegible] pleasant [illegible]
[illegible] pleasing [illegible] — [illegible]
gentleman in Edinburgh [illegible]
[illegible] to have, if [illegible] be made [illegible]
[illegible] difference [illegible]
[illegible] Future
as hard as [illegible] — [illegible]
[illegible] think [illegible]
[illegible]

[illegible] 10 [illegible] sensations [illegible]
[illegible] applied to the surface of [illegible]? —
The application of smooth surfaces is pleasant by
exciting an harmonious vibration of [illegible]
wh the rough ones [illegible] —

Is it not true that certain sensations are of a
mixed nature [illegible] both [illegible] ×
pain? of this kind are tickling in the soles of [illegible]
[illegible] certain stages of hysteria — [illegible]
hysteria [illegible] of [illegible]
pleasant [illegible] each other [illegible] —

[illegible]

[illegible] Ok, yes [illegible] — [illegible] — [illegible] of [illegible] [illegible] [illegible]

to the part during the action of the organs of the senses — this obtains in the case of [illegible] perhaps in one or two others but it certainly does not in all the actions of sensation — for all [illegible]

[illegible]

[illegible] from all [illegible]

[illegible] [illegible] — [illegible]

[illegible] ~~[illegible]~~ [illegible] [illegible]

[illegible]

[illegible] [illegible] and [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] can [illegible]

[illegible]

[illegible] all [illegible]

[illegible] all [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Delight [illegible] to feel [illegible] the idea
of their [illegible] — the [illegible]
[illegible] full
but in opposition [illegible] in idea
[illegible] — [illegible]
[illegible] in reason
why Women have been [illegible]
because the [illegible]
as it were [illegible] in women [illegible] —
their [illegible]
3rd [illegible] becomes [illegible] dis-
-[illegible] — the pleasures of [illegible]
[illegible] pleasures [illegible]
in old age. The [illegible]
of it — Solomon was well [illegible]
but [illegible] one sensation can exist at the
same time — since we examine [illegible]
[illegible] but no [illegible]
destroy them — the more powerful sensations are
those of their minds — and the [illegible]
not [illegible] — in the prospect of the [illegible] of a future
state —

[illegible]

[illegible] Annual Economy

[illegible] of the economy of Conservation

[illegible] — [illegible] cut with

[illegible] — [illegible] the

[illegible] works of our Creator in course

[illegible] and that ought to lead us

to Eternal happiness Since thus since the Decay

of all human arrangements — this is next

I come into the proximate cause of the Decay

of the mind — The different effect

[illegible] of the mind [illegible] more

[illegible] in our textures are diminished like —

Present life [illegible] consists in mutual

action of Body on mind — and mind on

the body — [illegible] the fatigue of the mind

[illegible] imagination [illegible] action of

[illegible] on the Brain — [illegible] it proves [illegible]

[illegible] — the body [illegible] the principal

disorders from indulged and [illegible] on diseases

of the mind — and the facts related on Animal

Animal Magnetism —

[illegible]

3. [illegible] Question [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] the movements in the nerves — The

discharge [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] Bell from these [illegible] that [illegible] [illegible], [illegible] the effects of the [illegible] on the skin [illegible] [illegible] [illegible] on the [illegible] [illegible] and [illegible] often accompanies the increased secre-tion [illegible] [illegible] [illegible] particular on the glandular system — the [illegible] and [illegible] [illegible] a greater quantity than usual — [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible] cause of the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible]

The pleasures of the [illegible] depends on a harmonious order of vibrations excited in the brain as [illegible] [illegible] [illegible] [illegible] the nerves — Distention and Relaxation [illegible] these vibrations of the Brain in the same manner as of the nerves — [illegible], love, and other passions are [illegible] [illegible] [illegible] [illegible] — While [illegible] in [illegible] [illegible] and [illegible] [illegible] Diseases [illegible] [illegible] the brain is in a state of relaxation. [illegible] [illegible] [illegible] pleasure of the mind is to [illegible] the activity of its faculties, and lead them to [illegible] [illegible] [illegible] and [illegible] [illegible]

[illegible]

[illegible] is a [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
nes of the senses ought [illegible] be [illegible] - it is
an Eternal and unchangeable law of Nature
[illegible] - hence we [illegible]
[illegible] [illegible] [illegible] [illegible] think therefore th
[illegible] [illegible] [illegible] not [illegible] the commandment a
[illegible] [illegible] [illegible] committed a sin against
the [illegible] of Nature

Repetition [illegible] the [illegible] action of
[illegible] [illegible] [illegible] the mind [illegible] become
[illegible] as [illegible] the senses — [illegible] [illegible] who
has lost a [illegible] [illegible] will not bear to [illegible]
[illegible] for a [illegible] months but after some time
will visit not only without pain but with
[illegible] pleasure the [illegible] [illegible] sensations

[illegible] [illegible] I [illegible] [illegible] account of the [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] I must
[illegible] [illegible] [illegible] repetition [illegible] [illegible]
[illegible] [illegible] in the same manner as [illegible] of the
senses - [illegible] the [illegible] I mentioned [illegible]
[illegible] [illegible] [illegible] [illegible] becomes [illegible] [illegible]
[illegible] repetition [illegible] of [illegible] [illegible] an
[illegible] [illegible] I shall relate - In [illegible] Woman
[illegible] more charms to her [illegible] [illegible]
[illegible] [illegible] [illegible] at least the [illegible] [illegible]
[illegible] a [illegible] [illegible] [illegible] [illegible] [illegible] much
more

[illegible] [illegible] [illegible] [illegible] handsome one — the

observation was first made [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] — [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] of [illegible] on a [illegible]

[illegible] [illegible] be [illegible] the handsome or [illegible]? if

[illegible] [illegible] horses [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] from [illegible] [illegible] [illegible] &

[illegible] [illegible] [illegible] of [illegible] [illegible] or [illegible]

[illegible] [illegible] [illegible] of [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] meaning [illegible] [illegible] [illegible]

of the [illegible] to a consideration of [illegible] [illegible]

impressions the exhibition became [illegible] [illegible] [illegible]

in the [illegible] of time [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] it without [illegible] [illegible]

[illegible] ~~pleasure~~ it [illegible] one of the greatest pleasures

[illegible] [illegible] like the contemplation of [illegible] [illegible]

[illegible] [illegible] a grand argument in [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

difference being in the [illegible] male over [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] not enlarged [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] of [illegible]

[illegible]

I proceed next to consider the state of Sleep

Sleep — We are referred to consider of modern writers — and accordingly find 3 circumstances obtain in the following state of the perfect animal — that in sleep there is an absence of sensation & motion — which is just to sensation what, next is to motion, & darkness to light — which has in one respect a tendency to death — as it is attended with an absence of sensation and motion — yet has it a tendency to life as the exertion is increased by it and excitement equalized which occur naturally when the system is debilitated or reduced to what Dr Brown has happily called the sleeping point — Collins says that it consists in the collapse of the Brain — but we think it is as before said an equilibrium of excitability & excitability takes place — and sleep never occurs either when the system is depressed below the sleeping point — or when raised above it — the extremes on the greater or less degree of stimuli we have been exposed to throughout the day

If we have been exposed to much fatigue we raise the excitement at the expense of excitability

and that

and Sleep is necessary for the equilibrium of the system so that the Sleepers joint stimuli are required to raise it to it as Opium Strong Tea &c if it be raised beyond the sleeping point it must be reduced & it is accumulations of the rate in air, etc. p is produced in Tender spontaneous beings & the stability increased by repeated Wearing etc. - The remote causes of Sleep are deri ved into Sleep as raise the System to the sleeping point, and, in reference it to the sleeping point the former are recalled as to the latter. Recalled these last are as follows 1 Labor & the mind such as you must all have experienced 2d Ex air stimuli as Elements - Arrows, or rain, incent Narcotics Opium Sea Coffee and other narcotics - to raise the System to that grade of excitability which is the Sleeping point & Recognized air prai ables acts in the same way in Tender of ables

3ly Certain noises or Sounds such as exist all Cities & the heat after exposure to cold & in Lose and familiar recurse of the unintelligible or an interesting subject - Rise and snow [illegible] the calls [illegible] the

remote causes of which the immediate
Delirium great such as produce it be seen
in the system to the diseases point. There are
yet the abstraction of certain stimuli as Sound
light attraction and ... vulgar motion in
the blood 2nd certain evacuations, which
[illegible] [illegible] [illegible] 3 [illegible]
[illegible] [illegible] [illegible] [illegible] also are
[illegible] [illegible] [illegible] [illegible] I might refer
the investigation of the general epidemic 4th last
section of pain - some persons which found when
[illegible] relieved of a cut of the brain also after
civil death ~~the~~ ——— [illegible] Dr Dalton happens
in constant habits or in any medicine subject
[illegible] according to the report of Mr Ackerman
Keeper of Newgate - the Convicts always sleep
well the night before execution when for an
[illegible] to Death - [illegible] [illegible] who was
[illegible] in Ireland [illegible] a letter to his wife a
few hours before his death informing her of
his having slept the whole of the preceding
night. Here despair and constant thinking
on one subject [illegible] a [illegible] effect —
[illegible] are the means of [illegible] remedies
in

Lecture 11th

[illegible] last lecture explained [illegible]
[illegible] 3 [illegible]
[illegible]
[illegible] 2nd [illegible] subordination of [illegible]
3d. [illegible]
[illegible] next is [illegible] a [illegible]
[illegible] phenomena [illegible]
[illegible] causes [illegible]
[illegible] right [illegible]
[illegible]
[illegible] next [illegible]
[illegible] so [illegible]
[illegible] it is [illegible]
[illegible] with [illegible]
[illegible]
[illegible] well [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] abstractions of
~~[illegible]~~ [illegible] motion

[illegible] probable-
ness — hence cases of [illegible] in the bite of the
[illegible] of the [illegible] relaxation of
the muscles is owing to this cause — in the
[illegible] relations of cold we have hence the
[illegible] of the [illegible] of operation of diseases
[illegible] it seems to be degree [illegible] in the human [illegible]
[illegible] probable [illegible]
in respiration of the animals of circulation motion
[illegible] the rest of the [illegible] [illegible]
[illegible] relaxation — conditions are not
[illegible] as markedly [illegible] of the cold
[illegible] — hence we [illegible] mode
water against the night — [illegible] and
[illegible] persons [illegible] [illegible]
[illegible] of [illegible] ~~[illegible]~~ [illegible]
[illegible] night — [illegible] [illegible]
much become fat —

The more heat is required for a diminished [illegible]
[illegible] 12° of temperature will
be [illegible] but [illegible] [illegible]
[illegible] — [illegible] [illegible] [illegible]
[illegible] greater degree, [illegible] accord
[illegible]

[illegible]

[illegible] - Hence [illegible] the great [illegible]

and other animals make their [illegible]

in the night. Children sleep more than

adults, [illegible] Infants [illegible] more than these

who [illegible] in [illegible] - [illegible]

[illegible] sleep [illegible] again [illegible]

[illegible] Arbuthnot calls [illegible]

of the 24 [illegible] - Then they sleep a great

deal - 7 hours is [illegible] out of 24

for middle aged persons to sleep - Dr [illegible]

[illegible] the [illegible] relates a case of

an [illegible] Clergyman who lived to between six

70 years and never slept more than 4 hours out

of the 24. The late [illegible] and reverend Mr

Wesley never during the latter part of his life

slept more than 4 hours per diem. [illegible]

[illegible] Mr Whitfield slept [illegible] the

late King of Prussia during his latter years

slept between 4 and 5 hours [illegible] man

of great talents was ever a great sleeper

a person who once slept with Mr Whitfield

declares that he slept more in 4 hours than any other

person [illegible] Dr [illegible]

[illegible] - [illegible] 5 hours [illegible]

[illegible]

[illegible] — [illegible] is marked in [illegible] [illegible]
[illegible] we have [illegible] consciousness of [illegible] a moment
and an hour [illegible] [illegible] time [illegible] season
[illegible] [illegible] [illegible] of [illegible] [illegible] [illegible] are
of [illegible] [illegible] [illegible] awake at the expiration of the
time and was unconscious that he had slept more
than a moment — after [illegible] the faculties of the
mind appear to be under the influence of gravita-
tion — the moral faculties rise to the top as
the cream appears and to be the most part [illegible]
[illegible] under the influence of [illegible]
[illegible] appears regain the ascendency and make a
barometer as it were with the moral faculties
The understanding in the morning is the Barometer
[illegible] the [illegible] of morning dreams are easily
[illegible] [illegible] from have [illegible] smell in one night
[illegible] — [illegible] [illegible] in the morning
[illegible] [illegible] & stretch our limbs for the purpose
of imparting the equilibrium of excitement and
excitability which is not yet complete — [illegible] [illegible]
have a custom of [illegible] before breakfast and
the [illegible] [illegible] weak [illegible] [illegible] [illegible]
health [illegible] not to [illegible] it [illegible] [illegible]
[illegible] exercise till [illegible] [illegible] [illegible]

Sometimes as in [illegible] weak in the morning — hence [illegible] to [illegible] in the morning — the Indians [illegible] well acquainted with this [illegible] hence they attack their Enemies at break of day — [illegible] to remove the debility we feel in the morning [illegible] with dinners of the most agreeable kind and with dephlogisticated air from the perspiration of vegetables at the season of the year when we are most in want of them [illegible] — These then are principal Phenomena of [illegible] in the act of waking (I except dreams [illegible] I shall now proceed to treat of some other uncommon Phenomena —

Dreams [illegible] or particular excitement on the mind or senses [illegible] of the brain — in Dreams there is an imperfect operation of the [illegible] of the mind — in some the memory is [illegible] while the immagination is in action — in some Dreams the moral faculties are asleep — we frequently in Dreams [illegible] which if [illegible] [illegible] Persons [illegible] [illegible] Dreams from the [illegible] excitement of the Brain and [illegible] the blood [illegible]

[illegible] do we distinguish persons in our
dreams? owing to the [illegible] imagination not active regular-
ly and without the aid of memory — more frequently
so we distinguish persons at a time? owing to the dark-
ness of our memory — for example we often dream
of our old friend and we still think in our dream transact
a business together without ever recollecting
that he has been dead a long time — how differ
ent are dreams are our ideas of right and wrong?
owing to the feeling of [illegible] we cannot [illegible] the
[illegible] vague idea of moral obligation in our dre-
ams — [illegible] not in dreams an obstruction [illegible]
and [illegible] we [illegible] [illegible] other [illegible]
Jesus? I think [illegible] — [illegible] strange that [illegible]
[illegible] — [illegible] appears [illegible]
[illegible] [illegible] the difference between
[illegible] the [illegible] of the actions of
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] dreams constitute upon an criterion
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] character — and almost [illegible]
[illegible] [illegible] [illegible] [illegible] dreams —
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

some [illegible] on [illegible], [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] —
[illegible] [illegible] [illegible] instance of a young
[illegible] [illegible] who by means of some [illegible]
[illegible] [illegible] into his own [illegible] when a little [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] at a [illegible] and [illegible] [illegible]
[illegible] by the [illegible] of a pistol shot into his hand
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] (was the will [illegible] here? J.S.) [illegible] [illegible] [illegible]
[illegible]? this point is unimportant. Question
is if the fact of the fact is correct.
Coleridge [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] to
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
instances of persons who never ~~dreamt~~ dreamt
[illegible] Gonnell had a lady in his [illegible] who
never had a dream in her life tho she was 30 or
[illegible] — Mr Hunt the [illegible] Pedestrian Journal
[illegible] [illegible] [illegible] dreamt when he [illegible]
an vegetable [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — Mr [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
as we would think in that case without dreaming —
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

of ideas [illegible] that we forget some of our
dreams while a large association of ideas is
brought up to recollect — first one of probable dreams
which are in a manner linked together we do not
recollect our dreams — according to Mr Locke
linked in chains together — The reason
is perhaps that lucid dreams are to take
place in consequence of unequal action or
more excitement of the brain dreams seem
very frequently in a hollow at the periphery
dream sleep without dreaming

We are able to make a supposition
mainly but we know — how can we explain
this fact? Whether it depends on the movements
made on the memory but [illegible] so much
in the face we to sleep — the memory remains
awake while all the other faculties of the mind are
asleep — We have the power of recalling certain
dreams if we please by effort — for the time
we are in the exact position in the mind we
recall dreams it — if we are anxious to recal-
lect a particular dream we can so fix the
[illegible] upon it and we remember —
Coleridge [illegible] in the brain [illegible] times
so quick as to influence the [illegible] of the limbs
[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] be [illegible]
[illegible] [illegible] — [illegible] [illegible] [illegible] [illegible]
verses when in sleep — The Reverend Mr
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] somnambulism if I may use the expression
in a very remarkable degree — one evening
he retired to bed before the rest of the family
The family as usual assembled to supper
The old gentleman got out of bed in his
sleep put on his clothes went down
stairs seated himself at the table — when
he conversed and ate as usual and after
[illegible] [illegible] a pleasant [illegible] or two [illegible]
[illegible] he [illegible] in a [illegible] and [illegible]
he was [illegible] he knew nothing of what he
had been saying and went to bed again
his remarks [illegible] the truth of [illegible] [illegible]
all doubt — A young man is said
in [illegible] French Acad to have
written compositions in his sleep — Somnam
bulists never recollect when they are awake
any circumstance of what [illegible] while
they were in that state — but in the next fit
they recollect perfectly well what they had done
[illegible] [illegible] intervals — [illegible] [illegible] [illegible]

[illegible]

[illegible] a great deal of water had [illegible]

[illegible] It is a kind of fat that lies in

[illegible] of separate intervals - [illegible]

that lies here he feels down [illegible] down sides

[illegible] - but what is the most remarkable in

[illegible] is the extraordinary [illegible] of this man

[illegible] he [illegible] he lets himself

down it [illegible] frequently the fat goes off [illegible]

[illegible] the [illegible] of his labour he forgets [illegible]

[illegible] it [illegible] to do whatever he

[illegible] before he [illegible] him but

[illegible] the next time when he is taken with a

fit the forgets the [illegible] and [illegible]

[illegible] which he had undertaken before - so that

[illegible] that he wishes to [illegible] two months [illegible]

[illegible] he [illegible] on his [illegible] the other [illegible]

the intervals [illegible] independently of each other

[illegible]

[illegible] two [illegible] two that [illegible]

[illegible] of the two [illegible] [illegible]

[illegible]

independent of each other and such [illegible]
[illegible] will understanding &c —

All The Commandments [illegible] recollects some of the actions recommended in his [illegible] — may not the reason of this be — because the force of the impression is not sufficient to recall the memory and cause it to come at its usual time? —

The same things obtain in Mania — a person [illegible] he gets an idea of being a king or a Sailor and in his next fit will forget it entirely if he be cured and if he relapse the same idea will return with it in disease — a remarkable instance of this kind happened in our hospital a few years ago — a person conceited he was an admiral — ordered the people about him to reef such a sail — well the haul yards, put the ship about &c. — he recovered and his notion left him — he was brought back again with a relapse and was again yt Admiral

I think it probable that drunkards have the same kind of recollection in one [illegible] [illegible] what they do in the [illegible] of one [illegible] of the other. Baker [illegible] in [illegible] relates his having been intoxicated [illegible] by an infusion of a [illegible] called [illegible] by the natives of [illegible]

parts of — — He was very rapid while
under the influence but on a recollection of his
being been intoxicated — It is remarkable that
Somnambulists never feel fatigue from any exertions
commenced during that state that commences in
the state — It seems the exertions of mental
excitement are in general — Did he never
dream of Person near him? Does never dreams
of the absent? In fact this it seems to be
clear or else in the commencement of it This
is because the excessive Strictness of thinking con-
stantly on the same Subject during the last mon-
ths was the relapse of the Pain — Cliff
Pittenham supposes we that for 7 years he was
violently in love with a Lady and the remorse
felt at her death was the least ground of his
complaint in the morning and the last — at Night
and so his mental view such to dream of her

Dreams which has been in Pitcairn are not
the effect of Supernatural agency — It was
the very disturbance of Cliff's mind in sleep
to tell the breaking & Dreaming and even
inspire in the most important Conversations of
Common life — or in nature is not a Gentle

Prominent before an important battle on which the fate of empires often depends. When dreams are found at 10 or 12 in the morning it is owing to a coincidence of circumstances and is the effect of accident and chance. The same thing occurs every day when the contrary fact. As this however is in no means intended that all the commencement of a dream may be certain, yet, should the human mind reason a priori, it would be a conclusion. The example of Napoleon is a clear illustration. He frequently dreamt what was to be at a future period. A Spectator may derive information in attending to dreams. The principle of human action, irregular or morbid excitement in the brain and be should order examination, terminating in coma, an imaging element of information intended by dreams. Soldiers who frequently lost on their sleep are carried, and he sees in coma of the room something of that no exist. There are frequently coincide with

Tennis Lawn apt — So I send out the
inner sense of that is under if that has
elegantly called it

"Forced virtues, sweet perforce"

Allowances are in cases and dandles of life
it is equally acceptable to the wedded and the
fair — It is entirely as I have observed before
most juicetic in a moment Horizontal fortune
but some are able to stick sitting in a chair
with even standing upright — The next time
just an idea I have to treat is ultimate —
Tho you must see as most treatise ~~Phrenological~~
— Phrenological subject but as I must treat of
Style blood and of question — it is necessary that
I first in good words on the subscribe of the
Blood is corner Phrenology is a very important
thing for a Superior to understand this an as
it has is frequently consulted — and not to be able
to direct as to its qualities and quantity is
considerable — as in the Sanguine has or the
mode of preserving aliments the Phrenologist

[illegible] — I shall therefore make a few observations on that it is almost as necessary as the preparation of the medicine — and some [illegible], which I refer interest on the subject till the next lecture

Chapter II

Proceeds to describe the teeth of the human animal and vegetable.

First then these classes are very distinct from each other, either in their structure or in the teeth of the animals in carnivorous or granivorous animals are a combination of both and from the mixture and in which the teeth of either classes of teeth give a positive intention. Cuvier says he has all an not certainly to say and that in it so we should be examined at our leisure who eat flesh — in the tiger there is and needs in certainly animals for the teeth — it is a gift of our loving Saviour — in the first place accordance from a lion or thousand more all made and executed for want of instruments for not flesh

Preceptors been destroyed — we must consider it an act of Benevolence — The keeper relieves animals from all the Terrors and infirmities of age — the animals do not man deprive a Division of any food — again the animals bodies have grown on Idea of Intermediate — a bodily immortality — it is all that Lifer at this exist Life — a man differs more from a dog of the Lower or Stone than any animal in being killed — Time is Done an animal or creation which Did produced first or even Ancient Wh has not at some time offended not and Lead but a luxury & Pain This teaches us not to consider as intruders any animal even the Loathsome as worms they are all created for the use and convenience of man or of their animals —

Let us next consider the Propriety of alimental nutrition is merely a necessary — as has been said — ? man

remove

[illegible] system has
been settled
[illegible] certain [illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] 1st [illegible] the moderate use of all
aliments wh is probable — & wh sets easily on
the Stomach is wholsome — Take notice Gent.
I shall speak of the harmony of the Mouth &
Stomach — some aliments please the taste
wh excite disorder in the Stomach such are
not wholsome. Doctor Sotherill in defence
of his opinion relates an anecdote of Lord mons-
field who wrote to him now and then
his Lordship frequently interrogated the Doctor
respecting wines & the wholsomeness of a dead
[illegible] — Pray does your Lordship love it?
yes — does it agree with your Lordship?
yes then it is certainly wholsome —
[illegible] of the most [illegible] wholsome food is
variable & even repugnant as it [illegible]
[illegible] Pray [illegible] [illegible]

[illegible] been [illegible]

[illegible] in an act of

[illegible]

are not done away in them — the system has
some years after it has been followed

3d. Particular Dispositions cause certain dim
ness of our easy digestion to most people and in
digestible to others 4th The time of life has an
influence on the inclinations of food — children
to more people at certain age unwilling yet
in general it is a delightful part of diet — do that
the same aliment ~~[illegible]~~ varies in this respect at certain ages
5th. Habit has a great influence of almost rend-
ering us pleased with such as was unpleasant
at first and the digestive powers as well as the
appetite this remark extends not only to ex-
ample manners but agreeable and easy of digestion
to persons to whom it was at first unpleasant
and unwholesome — these remarks seem insu-
ficient to induce us to reduce the repetition times
when aliment is taken — in fact various as
well as among most civilized nations, custom
has established 3 or 4 meal times as regular
only in the 24 hours — the records leave all
the convenience of our occupations — lastly
learned Man like the Horse was designed

for

to eat always or at least little and often
so as to keep the stomach continually and
in the impression of moderate distention
the inconvenience attendant on the long inter-
vals of time between meal times are most
observable in children and old men who
have arrived at the second childhood - they
cannot wait the accustomed time without suffering
the stomach cut sickly and often the
Physicians informs us that frequently repeated
doses tend to cut this method keeps the sy-
stem under a more constant influence of
stimuli and allows digestion to go on with
more ease and the stomach to be emptied
of its contents and the impressions on the
nerves and circulation is more uniform
the Tyranny arising from the long inter-
vals between meals has given rise to the
use of evident Spirits Tobacco & Opium to
to supply the place of food - custom
has rendered simple for us to make one
principal meal in a day - despises now
arise concerning the most proper time
for the

for this Meal — in my opinion the roman custom of taking it in the evening is the best after the various fatigues and labors of the day — repetition is invigorated by rest after a hearty meal and the night is the most convenient time on this account perhaps about 8 o'clock in the evening — this arrangement will not be so powerfull or favorable when we recollect that rest should not be horizontal The Portuguese I as said lie on the floor after dinner but it is not in an horizontal position they rest themselves back against a wall and sup port their lower extremities on two chairs sometimes and he is never to sleep after dinner but he sleeps in his chair — in short people who make a prac- tice of sleeping after dinner always look sick ill- tempered or stupid — a very common custom is to drink bitters before meals — this I think highly prejudicial to the appetite & it frequent- ly destroys or makes so keen that we eat more than is for health the Indians well know this fact that drinking before meals destroys the appetite hence they never taste even water before dinner drinking in a long morning

2

a remark later made of indicating our bilious appetites or is not improper bread eggs roasted or fish tea &c does not destroy our appetite and our bilious as it is not the accustomed food — it is customary with also to drink at meals when we receive an appetite Food it we excites it — this is common to the indians — it makes us eat more than we have occasion to eat and empains digestion but stimulates the gastric juices and hurries the Aliment through the alimentary canal before they are perfectly digested — Cocoaine & an other custom of the disagreeable of the subjects the visitor to a master of an house drinks before commencing his repast, but wooing doain excitement as men are usually debilitated before dinner — and subjects him also to the inconvenience of swallowing his food before he has masticated it properly it would be a infraction of being ill treated and be hence ever of his dinner from his Neighbours — he must enter into conversation with a grave or thinker who fatigues him to much as depresses him almost as degrade from his dignity — not to mention

the

whether the damage done to clothes and total strikes
the Chinese are afraid to the French have been in
the customs of disfiguring the face of the victims
in that present case is that you forget that you
are [illegible] an innocent and fashioned a useful
Animal This idea Anthony Benezet could
never bear — the Chinese neither use knives
or forks at their tables which is certainly an im-
provement again — the absurd creations of Arma-
ture Natural objects are to continue enlarge
Trees to return towards and are makes as thick
more than a mile to the interest models our
Neighbors extent treating with spaces and [illegible] them
with good reasons for their health [illegible]
it breaks the silence which I have the have ob-
served is neither for the [illegible] enjoyment of the
[illegible] of taste [illegible] Pus distinguishes our selves
good

The Phenomena of element solids or
in solubility [illegible] positive force or an fluid
transmutability — the nutritious food [illegible]
prove the power [illegible] substance becomes
replacing the substitute of element

1st Sex females of all ages are more tender and easy of digestion than males. Castrated animal more than those retain marks of their sensibility if it may be allowed the term — hence Capons are preferred to Cocks and young Bullocks to bulls and Rams age has a great influence on the wholesomeness of animal food — adults are more stimulating and more easy of digestion than young animals — hence beef and mutton are lighter regarded than veal or lamb — ellection is at perfection at the 5th year — The prominence of the scalch and wattle is in keeping at its the 7th year — the time in which animal has been preparing for the slaughter house and the method used influence our wholesomeness of animal food. The lower leg should been following the more wholesome as the food the superiority of wild food consists in their being free quite & more gathering are hardier than tame ones — hence the idea entertain the general age of venison and is the 4th to 6th

[illegible]

explains [illegible]

[illegible] to [illegible] — [illegible]

[illegible] [illegible]

[illegible] of cooking with [illegible] boiled

[illegible]

[illegible] the [illegible] float on the [illegible] of the

boiling be longer continued [illegible] fall again to

the bottom — [illegible]

[illegible] a slice of tongue or

ham — [illegible]

invalids a diet of [illegible] with tongue, or [illegible]

[illegible] — [illegible] has been a [illegible]

[illegible] The catholic [illegible]

[illegible] 40 days [illegible] the [illegible]

[illegible] — [illegible]

[illegible] be admitted [illegible] of

[illegible] — [illegible] at a time [illegible]

[illegible]

[illegible] the greater of

[illegible] — [illegible] animals [illegible]

called land animals [illegible]

[illegible] abstinence [illegible]

[illegible] prolongation [illegible] —

[illegible]

[illegible] more pleasant

[illegible] common [illegible]

[illegible] ashes in its place [illegible]

[illegible] of [illegible]

[illegible] unfrequented [illegible]

[illegible] vinegar [illegible]

[illegible] to more acute descriptions of [illegible]

[illegible] vinegar in a dilute form —

[illegible] epitaphs [illegible]

[illegible] the [illegible]

[illegible]

[illegible]

[illegible] — [illegible] —

[illegible]

[illegible] it – of the [illegible] much on the [illegible] the [illegible] better colour and also [illegible] in [illegible] soluble – [illegible] but common salt is more elemental than [illegible] in certain [illegible] especially in convalescents [illegible] intermitting fevers and [illegible] of Preserving [illegible] best [illegible] the bones – [illegible] become [illegible] the bones –

[illegible] been a [illegible] [illegible] been white [illegible] have been [illegible] the [illegible] out [illegible] separate [illegible] fine [illegible] —

Lottie [illegible] Patent Cork – [illegible] is made [illegible] a [illegible] of that [illegible] required [illegible] to be [illegible] – [illegible]

[illegible]

[illegible] Potato [illegible] — [illegible]

[illegible] Potatoes — [illegible]

[illegible] Potato — [illegible] other vegetables

[illegible]

Co.

[illegible]

[illegible] to the con-

[illegible] Man [illegible]

[illegible] Vanity [illegible]

[illegible] copies next to the

[illegible] Fits of the Vapours

[illegible]

[illegible] Cure [illegible]

[illegible] Cephalic powders of Tom

[illegible]

Pen deliver? — [illegible]

[illegible] — [illegible]

[illegible] — [illegible] de

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

a Man has done — [illegible]

[illegible] — [illegible]

[illegible]

[illegible]

[illegible] — It is probable [illegible]

[illegible] — [illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible]

[illegible] — [illegible]

[illegible] come — and [illegible]

[illegible]

[illegible]

[illegible] Ligurian —

[illegible] —

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] and [illegible] —

[illegible]

[illegible]

[illegible]

[illegible]

culmination . of the most Ligurian [illegible]

[illegible]

[illegible] — [illegible]

it consisted in its best [illegible]

[illegible]

and is a very [illegible] and [illegible] —

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] and blues were distinct and [illegible]

Thus in case of [illegible] fever - Patients who have [illegible]

[illegible]

[illegible]

[illegible] mouth [illegible]

[illegible]estion [illegible] purpose? [illegible]
[illegible] the [illegible] mechanical
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] – [illegible]
[illegible]
[illegible] [illegible] Chemical Solu
tion [illegible] digestion [illegible]
[illegible] commonly the force of the Stomach
in digestion = 12950 lbs. Dr. Beaumont [illegible]
[illegible] [illegible] digestion [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] solution [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] experiment of
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] meat [illegible]
[illegible] [illegible] – [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] digestion

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Blood

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] the white of an Egg is more
clear than the vegetable opinion — For
the white of an egg in coagulating is quite
separation of Water is more clear than the
vegetable opinion — and it never coagulates
down like as the other does — For more
proof that we have [illegible] this
are for the same principle — For it [illegible]
[illegible] of the [illegible]
[illegible] of the vegetable opinion is [illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] Fleurieu Dilon [illegible]

[illegible]

[illegible]

[illegible] anarchie! [illegible]
[illegible] conditions — It is a matter of
[illegible] could ever have it
[illegible]
[illegible] blood? [illegible]
[illegible]
[illegible]
[illegible] magistrate
[illegible] has been [illegible] —
[illegible] admitting the [illegible]
[illegible]
[illegible]
[illegible] transition [illegible]
C'est [illegible]
[illegible] gentleman
[illegible] conclude [illegible]
[illegible] a [illegible] sort of [illegible]
[illegible]
[illegible] Tuller [illegible]
[illegible] other [illegible]
[illegible] —
[illegible] believe [illegible]
[illegible]! I believe [illegible]
[illegible]

[illegible] — for it [illegible] —

[illegible] to the [illegible] of the atmosph-

ere [illegible] —

[illegible]

[illegible]

[illegible]

[illegible]

of the [illegible] — " [illegible]

" [illegible] in [illegible]-

" tion of the blood the blood [illegible] —

[illegible]

[illegible] blood

[illegible]

[illegible]

[illegible]

[illegible] The action of the

[illegible] produce all the effects [illegible]

[illegible] Blood [illegible]

the blood " This is true and in producing this

effect it acts [illegible] ~~[illegible]~~ [illegible]

nourishment [illegible]

[illegible]

[illegible]

and yet we will not be surprised that a body of Dead matter should be alive! — No more is the blood — The circulation of blood may be supposed an argument in favour of the opinion but it is as much evident that the motions of the heart are in the vitality of the blood — Blood is the remote cause of life and also the immediate of animal heat — Lungs are not evil in calling it the life of the animal it is a source of life and the impression is not more important than some now in use and among medical men but it is a little literature who call upon the staff of life and stone air the Paleucium Metaphysical research said in geometrical —

I cannot in distinct now trace of the Lungs of the, it presented the mental in measurement of circle — but it is admitted a respect. Lungs are a commencement to the chemical process to give a new in his constituents or elements in the chemical life in man is a chemist —

the staff of life

[illegible]

[illegible]

[illegible]

[illegible] Dilation or contraction [illegible] [illegible]

[illegible]

[illegible]

[

membrane. [illegible] [illegible] [illegible] [illegible]

[illegible] of the [illegible] [illegible] [illegible] [illegible]

[illegible] the course of the [illegible] [illegible] remains

[illegible] to consider the [illegible] [illegible] [illegible]

next consider the next lecture —

Lecture 9th

Lymph [illegible] [illegible] [illegible] [illegible]

[illegible] Liquor — [illegible] coagulable and [illegible]

[illegible] analogous to the coagulable lymph [illegible]

[illegible] [illegible] it forms after [illegible] [illegible]

[illegible] — its coagulability is [illegible] [illegible]

inflammations of the pleura [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] of the [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] — [illegible]

[illegible] [illegible] the formation of [illegible] [illegible] —

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] — [illegible]

[illegible]

[illegible] — The [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] — The [illegible]

[illegible] — The [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible] — [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] glands [illegible]

[illegible]

[illegible]

II

Lymph [illegible]
[illegible] constitutes the coagulability of the serum of the blood & the lymph
it contains [illegible] albumen [illegible] That which
[illegible] is not coagulable
nothing [illegible] on Lymph & [illegible]

Saliva [illegible]
[illegible] it contains much Ammoniacal
salt [illegible]
[illegible] element [illegible]
[illegible] is about 12 [illegible] —

Gastric Juice [illegible]
the same salt as Saliva [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
~~portion~~ mastication —

Pancreatic Juice [illegible]
bears so strong affinity to the saliva [illegible]
nature [illegible] question [illegible]
[illegible] its action [illegible]
[illegible] Bile — [illegible]

IIIIII

[illegible]

Lecture 20th.

On the Subject of Nutrition two opinions have prevailed — one that the being is nourished by the Nerves — and the other that the Arteries perform this Service to the System — I adopted this former taught the last of these theories after learned of my Master Cullen — but I have since been convinced that the arguments from which I had formed my opinion were false & I have of course rejected the latter Theory — the fact I allude to was that the brain was evolved before the heart and Arteries —

But his opinion is refuted by Dr Monro who believes that the arteries reach the body prior to the brain — Dr Haller has also proven that the heart and arteries are formed prior to the brain and nerves — he has shewn in Ovo — in 38 hours after the incubation — in 45 hours the Ventricles of

the

of the heart and arteries were joined — the heart
not till the 41st hour — the lungs not till the 47
in the 120 hour — the brain was sensitive in 168 hrs
Marcus — in 131 hours ..... from
which time an incursance of the heart was repeats to
fm Brain & nerves — Monro .....

The first instance appears to be of the blood
upon the heart and vessels — there are excellent
examples of stimuli acting at 2nd on the Brain
and nerves there 3d be reacted will be their sympathetic
exists the heart and lungs — after which they appear
to act reciprocally on each other and the
result from this reciprocal action — the heart
stimuli in the blood — then the arteries heart &c —
I agree with Dr Valli in supposing the brain to be
the extremity of the Nerves and the other end the
origin of them — that originate from different
parts of the body and terminate in the brain

The recorder the exclusively of the alone
parts indeed we to conclude that it lessens the
movement of the heart and first from the
great ~~[illegible]~~ sympathetic of the brain to the body — ~~[illegible]~~
~~[illegible]~~ ex who would not obtain if the Brain
discussed the body — since the Brain of an

ox is but one length as large as that of a man &
yet an ox is six times larger than a man —

Dr Mitchill accounts for this from Monsters who are
born without Brains are nourished as well as those
who have their reduct — How this could not be
the case if the nourishment was received from the
Brain — 3dly Parts of the Horse very small
nerves are as well nourished as such as have a
greater quantity distributed to them — 4th Dr
Monro destroyed the Sciatic Nerve of a Frog — the Frog
lived for several years after it & it's leg was as well
nourished as the other one no nourishment made unto it
from the Brain — 5thly another proof that the
Brain repels the performance of something that
is that Matter by entering the circulation & passing
through the Tubuli into the substance of the bone
color it red — Matter could not be conveyed by
the Nerves — 6thly the kinds of Matter we do
variously supply by the blood — the Nerves contain
always an jelly glue, at least it is probable —
7thly the secretions performed by the arteries

. . . . . .

Given this week

ness in the importance of the Headwaters.
To restore the principle of Medicine that has
long been overlooked in most of the
Systems of Medicine. Boerhaave attributes
the change of the body by disease to alteration
in the properties of the blood and overlooked the
Nerves altogether. Cullen put in an other name
resembles the phenomena of Disease to the Nerves
In this he was followed by Dr. Brown. The
Nerves were the basis of both these Systems of
Medicine. If I have contributed by my mites
as a mite to the advancement of the Science of
Medicine. it will be my having made the Sen-
-Sibilities system the object of and attention
whilst at the same time I hope I have not entu-
rely overlooked those of and Irritations just mentio

Chapter III.

Without we have considered the constitutions common
to both Sexes we come next to those
in a peculiar to each — or in the peculiarities
that distinguish the Sexes. These are such as depe-
nd on the body and such as depend on the pri
nciple the peculiarities of the Mind & body — The

[illegible] of the female
Bodies — [illegible] and real — The general
rule that prevails in all ages of the world and in all
countries has been and are still from Men — They
arrive at their full growth sooner than Men — Male
the texture of their muscles is softer than Men
of Men — their voices are less bass and soft —
[illegible] from the earliest age
as arise in the [illegible] of the Uterus on the bones
[illegible] in a manner than in Men — [illegible]
[illegible] of this is also a distinguish between a Male
and Female Skeleton — [illegible] the texture of Bones
[illegible] considerable [illegible]
[illegible] of their constitutions — It is [illegible]
that the secondary sexes is weaker or [illegible]
in Men — [illegible] Men in disease are [illegible]
[illegible] than in Men — [illegible]
[illegible], both of body & Mind than Men — It is
[illegible] being more irritable — [illegible]
[illegible] more [illegible] to reason than in
Men — The [illegible] are [illegible]
[illegible] is [illegible] to reason than, [illegible]
[illegible] is [illegible] hair [illegible]

[illegible] are a fallacy
[illegible] other [illegible] men have not the
[illegible] and [illegible] appendages for the
[illegible] of the [illegible] — 3dly their external
[illegible] of [illegible] [illegible] — 4th and last a [illegible]
of [illegible] from the [illegible] & [illegible]
[illegible] & glands [illegible] are on each
breast [illegible] the [illegible] of Milk for nourish-
ment of children — 5thly the thorax [illegible]
[illegible] allowing respiration in women [illegible] than in
Men to make room for the [illegible] in gestation
& hence [illegible] the pericardium [illegible] more
flexible in girls than in boys — lastly the
[illegible] of a Female's mind more [illegible] and [illegible]
than that of Men — Thus can we have con-
[illegible] the obvious peculiarities of the body
but we must [illegible] our [illegible] further for
[illegible] the Mind in our [illegible] of Physiology
[illegible] of Phrenology
[illegible] the peculiarities of the Female mind to
[illegible] an education [illegible] — [illegible] opinion
[illegible] — There is assumed original
difference —

difference consists in the kind & the degree between the powers of the sexes as ~~between~~ in the body there differences appear first in the understanding — this in women is less vigorous and comprehensive than in Men & is less "inventive" —

Thirdly in Imagination Women are inferior to Men — in some this perhaps exceed Men but in general they do not shine in so much perfection since we find the Poetry of Women is very good but is never Sublime — Who ever knew a woman with an Inventive Imagination? Look in vain in Pope's Eloisa? — 3dly the memory in women is greater for words and events than in Men — but for ideas they are inferior — They recollect words & events most perfectly tho' accompanied with pain as that of childbed — as this amount of Memory for events they are fond of keeping "Ladies Diaries & Almanacks" — The Indians can tell all their transactions of the seasons — & in case of illness or the like these correct information respecting events is requisite this are always called upon — & these are inferior to men in that Faculty of the mind of the Imaginative Art

Hence their Ideas of respects & improprieties are, tho' not more accurate than those of Men

Sf

excited men — From this circumstance of the superiority of Women, perhaps, we derive much of the pride which they are supposed to bring in comparison with the women — The moral health is more perfect in Women than in Men, however, the humanity, sensibility and courtesy in this respect than men — Women have the sense of the power of Deity in greater perfection than men — they may be more, from their delicacy and being more alone from, & less exposed to the circumstances of life which may cause a tendency to insure or demonstrate it of course women are generally more religious & virtuous than men

It first occurs to me now Gentlemen why I should be so much interested when speaking of Mrs. Cutler — it is that the wife of Dr. Cutler surpassed in her latter years to such an amazing degree that I could tell the embellishment, phrases, manner of her speaking time as any history, circumstance that occurred during the last 60 years of her life — if I be not one upon Shard and her now did you attend the evening of the 5th Jan 1792? I recollect remarkably answers and describe the company the dress in the one circumstance for reflection — To return

women

of it but this I do not believe
they are of course less distinguished by their veracity
than Men — The apprehensions of the female
mind differ as much from the Male as its faculties
— They have quicker perceptions than Men but
their judgment and reasoning powers are by no means
so great — Women have more fortitude than
Men but less courage — The former consists in
bearing pain. The other in an active resistance of the
Mind Women are more inclined to Secrecy than Men
They are more communicative of secrets than Men
but they are the Secrets of others not their own —

Men on the other hand are communicative of their own Secrets and tenacious of the Secrets of other People – Women are less forgetfull of injuries and less forgiving of Enemies than Men and less in habit of retaliating on them – great minds have no occasion for revenge – Women are less influenced by the venerial desires than the men and more delicacy and modesty than the latter – Are these differences the result of Education? or have they innate and instinctive? I incline to the latter opinion – Mrs Wollstonecraft the author of the Rights of women supposes the only difference between the Mental powers of Women & Men to be owing to Education – This celebrated writer and Reluctius are both wrong – In opinion is unfortunate – It is absurd – There is ~~[illegible]~~ certain an original difference stamped by the hand of the Creator on the sexes – we meet in the earliest infancy – Who ever saw a boy delight in playing with a Doll? or a girl anticipate riding on horseback by Trotting a Boy's a Cane? Observations made to any ..... between the mental Powers of the two Sexes – I am aware Masculine Women & effeminate Men

Men — Cant they see and be convinced to an exception to the general Rule —

Let not the youthfull champion of female excellence bestow the decent sensations moderation and respect for virtue — for from it Spirit —

To Man virtue has since never to admire and respect and loveliness more than I have — in fact there has exist a constant sociial & well as corporal connection — and it is right there should be —

The opinion on the subject is as consonant with reason as it is with strong imagination — I shall not make any apology for having treated of the subject as fully as I have done — The angel is concealed in a course of Physiology — the man who is unacquainted with the female gaits is capable of inscribing for a disease —

From the decline in the female constitution arises that gradually discharge of blood from the blood denominated the Menses or Catamenia by the discharge of blood. it occurs periodically in common to human species. the female Warriors (perhaps excepted) Q. it occurs at different ages in different countries — in the middle of the United States it occurs about the 14th year — in Spain the high life commences from as much as

as expected from other — and women are more out of doors than in the Northern

There are several exceptions to the time of its commencement — I have 3 children in this city

in 4 from it seemed under the 1st — after — of

more than one of one domicile — Yet neither

occupations nor habitations in wh it occurred in

the 1st 2nd & 3d months of age those accounts

are mere — At the time of this appearance yet

Parents begin to doubt — the boy become more bright

but the little more musicians and the whole

system & deportment undergoes an agreeable change — The General appetite is more felt —

4th — There are exceptions to the time of the celebration

of the Catamenia — in the middle States. The usual

time is from the 14, to the 50th year — but Some

old women have them till near their death

the oldest woman in this City whose age was 100

years had the menses 80 of them — usually the less

frequent or giving back — — In some girls

return again in extreme old age after that have

ceased for many years — a case of 100, occurred

in the Pennsylvania hospital in a Miss Porcelain

who the first ceased for 25 years in her 70th year

She had a return of them —

Mrs

[illegible] it takes place and attempt at the ante
climacteric age — it is like the menses at eight &
hearing spirit often occurs in at Puberty — we
see to the same renovation take place in men with
the difference that it occurs in the latter every year
in the former not for 80 or 100 years — it has
an analogue too with the renewal of the teeth of
at Puberty some times experience — this and many
other facts induce me to suppose that there will at
a future period be a renewal of the antediluvian age
but more of this hereafter — 4th The Menses occur
~~sometimes~~ sooner in women who Labor
or use that are exercise in the open air
5th Things cease during pregnancy & Suckling
some women have the discharge in the States
but it is from the Vagina & not from the Uterus — 6th
commonly it occurs about the 14th or 15th Month after parturition and is a sign of a new child and
renewed the functions of both women — The quantity of
the discharge varies in different persons it is generally
from 3 to 5 ounces. Subject to no more irregularities
or peculiarities — The period of continuance is 4 or 5 days
and its time of reappearance occurs every month

in Warm climates [illegible] most in quantity – perhaps [illegible] on this circumstance and the [illegible] of the ancient Jews – the opinion originated that the blood thus discharged was unwholesome & unclean – hence connection with a menstruous woman was forbidden [illegible] [illegible] was [illegible] [illegible] Both – The Jews even now have no connection with their wives till 2 weeks after menstruation is over

The important question arises, what is the origin of the catamenia? 2nd What is the cause of Monthly recurrence in the female economy? 3d What purpose does it answer? – [illegible] [illegible] [illegible] of these questions supposes it arises from the Stimulus of the Venereal appetite – but this opinion is as foreign from the truth as it is from decency –

[illegible] I have seen it in [illegible] cases where the [illegible] of the [illegible] [illegible]

[illegible]

[illegible] hand. [illegible]

[illegible] & also [illegible]

[illegible] particular [illegible]

[illegible] from the general [illegible] of the

arterial system of [illegible] [illegible] in [illegible]

in some cases being made [illegible] in the [illegible]

lungs [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] of the [illegible] — [illegible] of [illegible] [illegible] [illegible]

by plethora of the arterial system

3d

Phthisis Pulmonalis but the
[illegible] will be removed. Then we reflect that
[illegible] decrease there is the proof of digestion
and assimilation [illegible] will the [illegible] health
[illegible] the system of persons labouring under
Phthisis Pulmonalis is often Plethoric – hence
hæmoptysis common in that disease – and
the cause may be fairly considered as an
hæmorrhagic of the Lungs – we have to bleed
more in Phthisis Pulmonalis than in almost
any other disease owing to the plethoric state of
the body in Phthisical Patients.

It is a very strong argument that the time of Menstruation is
peculiarly to disease or an inflammatory
[illegible] – hence bleeding is more frequent in
this case – we his in conform to the old [illegible]
[illegible] myself by this precept –
another objection to the theory of Plethora is that
the [illegible] in Plethoric people does not prevent the
[illegible]

is so. If I have not mention more in external
objects or accidents, it will be for I may
hereafter come to the Attention of
persons to mention the change of the male sex
previous at intervals — I have an enlargement
and bleeding at the nose of the nose —
2nd a certain roughness in the Voice accompanied
with a cough which the 4th year also cough or cold
an eruption on the Chin & face, followed soon
a beard — General desires are more acute
increased — the whole system undergoes a
change becomes more vigorous the mind dis-
covers a great change in the body & acquires
vigor & rest it was before a Stranger —
This change usually occurs about the 4th year
no same calculus is here allowed — However
in some cases where the signs of Puberty made
their appearance before the 3d year — a second sex
the same change have been by some attributed
to an absorption of the semen and its stimulus
The argument in favor of this hypothesis are
drawn from Eunuchs and from the number of
Castrations called amongst the Turks & Egyptians
The Idea is entirely hypothetical. The use

The use of the appendages is merely intended for the purpose of conveying over the digestive mass into Economical Order, or as a pabulum — Life & Mind be accounted for in consequence of the Epithelial Secretions and Exhalations with the Vital Digestive Fluids in some cases produce morbid & even Death — again they cannot produce the existence of Omen in any part of the body but the nerves adapted for the secretion & retention which they could not were it accounted for from analogy but it is in the near & mentioned — Nerve & Epi produce effects on the mind & Mind somewhat similar to those of poisons — Excitor & exhilaration long before they can be supposed to have entered the circulation — again the alteration of the Secretions in the Digestive Urinary Pigmentary Sys. some analogy with disease — Tumors & in Lower Animals are produced by the formulas of distinctness in the wounds by Sympathetic with the stomach — This produces in the distinctness an enlargement of the mouth & the protrusion & color of the Skin excited by the gross Woman's Mouth — In Females the changes of Prophecy may be explained by the tension induced

in

in the same way it is to be conceived that become
dot in the same manner that some ways of
some the Lymphatics of the Lungs obstructed in both
these cases direct reality is induced with predispo-
sition to obstructed which I consider a disease — This some
thing happens from the obstruction of any other
viscera — that liable become longered in consequence
of it — The bulkings of the nature and cap
pacities in Lymphatics I believe to the same
cause debility. Lymphatics in the Lindolen obs-
truction of its functions exists in general
as I intended the experiments of the same nature
nothing can be inferred from the number of
Lymphatics except that, nature has been induced
to take away all superfluous moisture from the
Lungs — Farmers will figure that debility is
induced by castration for oxen they are means
intemperance, bad air in stabling it never do good
cures as a horse from owing labels to his house
The labels of jockeys are more attributed to
exercise, small horses for some animals
at first, tire — This merely arises from a more
vigorous circulation the increase of the time of
the

of the whole system. This is most observable in savage people — the operation of the senses seem to be merely stimulative — and yet upon questioning them, it is, I dare to say, hence of life in old age are able to recover the sensations of their infancy near years — yes, and the general aspect is casual almost with their existence — but in them the case is so settled, and it is rather that it lends the whole creation time their entrance, inspired reader then the moment the energy from the creative word — "Let Man has to learn instead in the image of his God," and it is right to learn from God to mount in a family up to God, before he forms connection with the Universe is elevated in his true sense —

(Lecture 1st)

Nature cant alone serve as consider the relations of the sexes and consider from what kind of life when they are to propagate their species — in Woman it is the comfort of man and for Homage — the latter that leave us life in

and 20 on then I was informed it was not
expected that age should be taken and will be
inquired into & excepted Genera - & the Women
promotions taking - I answer the general atti-
tude must be chosen by immoral persons
and in the immoralities at our system as a great
deterrent - much dispute concerning the
propriety of matrimony first been held from the
pulpit in the conference is asked by one of the
"brethren" "is it good to marry" - he answers -
"there are Bachelors who are Bachelors from their
"infancy & there are Bachelors who have been made
"so by their & there are Bachelors who have made
"themselves so for the Kingdom of heaven sake -
"if any of you can hear these things let
"him hear" Matt. xix. — This has been fol-
lowed consists in an arrangement in favour of
celibacy — I say falsely for it admits of a
scriptural opposite construction — I ask is our
Saviour being applied to on a subject
of so intimate & vital consequence a similar
general principle of conduct the general attitude
assumed as of the moment at the Calls of such a
question

question — The immorality of the general spirit
would be the consequence of any benevolent act
would be unique & if it were so — the decision
of the human race must be the consequence
of which we can never have intended — do not what
we have expounded an argument in favor of Gibbon
is in our opinion a strong and conclusive
fact — It is impossible for the human intellect
to have entertained a doubt of the infidelity of Gibbon
a contradiction not that of Gibbon's own disclaiming
his opinions of the cause of Christianity Rhetorical Flourish
or it is all in every state or condition of the system
in a species of his disease — the transcendent is on
Gibbon's the manner in Mr Gracchandine perhaps it was
due it is not critical rather inquisitive in a false Tuid-
tenia [illegible] — it appears immediately after
the convalescent from malignant disease & the Gaut-
[illegible] the prevalence of the [illegible] in that state
in the year 1793 the convalescent from this disease
at Bunk Hill indulged in a most common at
the execution of their imperial Queen — Gibbon
indulgence in his account of an Earthquake in
the time of Justinian who destroyed the City Edessa
that

that numbers of men have been committing
rapes on Women who were living in the current
tenor. [illegible] the shortness of the population
in the above case it might have been mistaken
[illegible] Montaigne mentions the case of an Idiot in
[illegible] the [illegible] remarkably strong
Montaigne mentions a case of a man in Rhom
the ~~[illegible]~~ [illegible] Capital organs [illegible] Rom-
the [illegible] these venereal diseases are very
recent — The Idiot who lives near Poughkeep-
sie in N York has a great multitude [illegible] be
accounted — Green tea does not in every case —
The German Thomas Jan was convicted of adultery
at 120 years of age — and our daily papers inquired
[illegible] Hartford Courant. Chelsea
[illegible]

Pellizzony was intended for a [illegible] & his heirs & assigns them to maintain the manner he had declared —

[illegible]

[illegible] all Secretary [illegible]
[illegible] particular [illegible] institution [illegible]
in the Urethra in Gonorrhœa, in the Fauces in
[illegible] & [illegible] & [illegible] determines a remar-
kable effect of this injection or is seen in bronchi
[illegible] or Water Brash — [illegible]
Gallopium [illegible] & Pagina in the [illegible] [illegible]
recursion of the [illegible] motion [illegible] [illegible]
[illegible] [illegible] [illegible] motion of the Fibres in
Intro to the Uterus? — [illegible] [illegible] [illegible]

[illegible]

on impregnation in cases of a sort previously & in a further
manner — But as it is entirely from analogy,
it must be treated as hypothetical & it certainly is
opposed to other facts — Several circumstances
indicate a belief of the ancients, that the actual
act of the male seed — the alternate powers of the
vagina — Excitability of the ovaria — Since after
impregnation the increases the excitability women
are more easily impregnated — also after long absence
from home — after a fit of sickness — running a voyage
or a long journey — These have remark
able influence on the generative powers of animals

Dr McCulloch mentions that sheep when brought
from some neighbouring island to St Kilda
did not take ram — but became pregnant soon
after their usual time —

The Natives of India in consequence
of certain religious ceremonies — the ovaria
inflammation & gratification — the ovaria
increase at the moment blood is shed in the Fakirs
Tribe and begin at the Menses — the ceremony
can be of a necessary & similar effect from
mechanical

Mechanical & Chemical Stimuli – I shall mention
two cases of the kind some what remarkable –
a lady in this City always experiences before the
commencement of her lending Sickness a coldness
in one of her legs. Succeeded by a glowing heat in
the foot – Dr Marle a Good of Perpetuitatis in New
York Castle mentions a case of a woman who always
knows the time she was conceived, by a great propen-
sity or inclination to steal every thing wh she comes
across – The final cause of this Nausea accor-
ding to Mr Hunter is to guard the System against
inflammatory complaints – It is not a universal oc-
currence from instances I do see of pregnancy in
this City in wh there was no Sickness at all – nor
some it is so violent as to induce great disease – I
have known some cases where the Patients were un-
able to sit up for 3 or 4 Months – Now comes is
the uterus before it expands the ovum? It seems
the whole business is carried on in the ovaria – It
may be compared to a hot bed where the plant
first acquires life & vigor – The uterus may be
considered as a large greenhouse where it is
nourished & acquires strength to resist the ex-

Vide one Refuse to Lecture
on Sexual intercourse a vindication
of the Lady who has been
[illegible]

Vide Dr Beck after Dissections
[illegible] Dr Beck has
[illegible] by conjecture
[illegible]

[illegible] not concerning Dancer
[illegible] Dissertation on Disease

[illegible]

[illegible]

[illegible]

Spent [illegible] yet
how many are there who live without working?
but the ingenuity of Man has [illegible] allevia-
ted & I think it natural in [illegible] too - In
some parts of Africa we are told the women bear
[illegible] children without pain and Mr [illegible] in-
forms us that the women in [illegible] have but very
little pain in [illegible] labor - the Turkish women
we are told [illegible] their [illegible]
all for 2 or 3 months of their Pregnancy - [illegible]
[illegible] [illegible] moral-
I have [illegible] that Healthy women &
~~[illegible]~~ delicate constitutions [illegible]
[illegible]
[illegible] Lyon [illegible]
[illegible] deb-
ility - this is [illegible]
[illegible] [illegible]
[illegible]
[illegible] [illegible] alteration [illegible]
[illegible]
[illegible] of dislocated humerus
at the Pennsylvania [illegible]
with

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] The [illegible] man [illegible] [illegible] [illegible]

Lecture 12th

Pathology

Introduction

Gentlemen, It seems we have considered the Human body in a natural state as it comes into the world before the birth, but now we are to behold it in disease as it becomes contemplative from after the birth as we unfolded as disease life — Sickness & Death like moral Evil are the ~~consequence~~ consequences of the lapse of Eternal Truth — As soon as Man lost the image of God other evil Animal in creation usurped his dominion over him — numerous other causes combined to cut short his life — Life & Mortality at least were given to him and many from which able to live for a thousand years — after a long time this increased in force & increased the mortality more limited period — The wisdom of God has compelled this diminution in order to do its proper good this cause has not a singular influence on the mortality or its diminution but yet it

[illegible] as the [illegible] experiments and measurements
the elements [illegible], nor [illegible] [illegible]
confined to this part only — extended measures
Reason! This [illegible] that life is affirmed to [illegible]
from causes [illegible] to [illegible] Obstruction —
That it is a fixed state is not consonant to
Reason & analogy than is true Inflammation —
That mixture or [illegible] in case life is since
continued after death when the causes have ceased
existed & Death — & the state [illegible] in some cases
for 30, 40 & 70, or an [illegible] period, and it
[illegible] victory of the [illegible] of the constituent
the living state of animals over the causes conducing
to [illegible] —

[illegible] [illegible] [illegible] such as if
were entering into a deserted [illegible] not
out a guide to direct me — Since has not
been a complete System of Pathology written —

Baillie's observations are concise and [illegible]
[illegible] by no means [illegible] to the present state
[illegible] State of Medicine — Muller has collected a

disease. I shall not [illegible] a minute
lecture on Gram. Them — Gaubius has published a
System of Pathology. It is [illegible] with the
Immaterial Pathology of his master to be of any use
to medical students. For all lecture [illegible]
to [illegible] through his volumes, without a guide, with
out a compass & shall follow the Gram. marks
the System. This & Gaubius is founded on prin-
ciples of my own. The Proximate cause of disease

The causes of disease I have divided into
Remote & Predisposing — Exciting or Occasional
& Proximate or the disease itself — [illegible] are
all links of one chain. Let me illustrate
this — Cold is the remote cause of an inflam-
matory fever, [illegible] brought on by the seda-
tive power of cold acts as the Predisposing
cause — Exposure to the heat of a stove room
the Carnal Sins or exercise the Exciting or
occasional cause — The irregular or convul-
sive action of the Arterial System is the Prox-
imate cause or the disease itself — I will
repeat it again, the Cold is the remote cause —
the debility it induces the Predisposing cause

cause — The action of a warm room or warm air was the exciting or occasional cause while the irregular ~~anti-convulsive~~ action induced by them on the blood vessels is the proximate cause or disease of Sleep —

The great & most we are endeavoring Fevers are only the Signs or Symptoms of the disease or proximate cause — These signals are of disease I shall not mention in my Lectures, but defer it till the practice of Physic

In treating the subject according to order laid down in our Syllabus I shall mention the causes of disease — before this I shall lay down a few general propositions ——

I — In diseases where we predisposing debility, those from remote & local actions excited — Certain Contagion does not induce disease without its being preceded by debility, nor does it in quick succession the exciting and proximate cause — The predisposing debility is of the [illegible] kind — between

[illegible]

[illegible]

[illegible]

[illegible] Poison [illegible], it [illegible]
certain death [illegible]
dose – [illegible] a [illegible] escape [illegible]
Poison [illegible] yellow [illegible]
the cold? [illegible] have been rapidly
called [illegible] The
Same must [illegible] Poisons of the animal Kin-
-gdom or Vegetable kingdom – [illegible]
[illegible] – [illegible] poison [illegible]
[illegible] animals [illegible]
[illegible] error [illegible] – [illegible]
[illegible]
[illegible] the cold? [illegible]
[illegible] error [illegible] – [illegible] not [illegible]
a positive cold? [illegible]
[illegible] remedies [illegible]
[illegible] – are not certain [illegible]
and [illegible] positive [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Inflammation & Sneeze [illegible] and the like? I answer [illegible] — What are the effects of error Evil — there is no positive evil in [illegible] — it is an evident maxim of the Species of Earth — Clay & Sand — yet both of these are useful and are [illegible] by attaining the [illegible] of the two paths — are not [illegible] [illegible] positive Evils? I answer no — they are evils [illegible] misplaced — [illegible] error Evil constitute our effects — [illegible] [illegible] [illegible] in our [illegible] arrays and [illegible] is an evil arising from Error Evil — in our Stable it is useful in feeding on the insects and other vermin that disturb our horses — But are not these positive evils? no they are probably designed for some wise-ful purpose by the Creator and are evils by being misplaced —

Let us next examine into Moral Evil seated in the mind — this like Physical Evil consists in debility it is of a negative nature & consists in the absence of the Strength or

Sense

Tissues of the will may be rather considered as disorder, the effect of disease — in contemplating this subject I have ventured to compare the mind to a magnificent Gothic pillar edifice structure useful & ornamental — Supported by a Pillar (the will) the whole fabric falls to the ground in disorder — The hypochondriac wherein want to enchant us by its terrors in the perusal — now omits indeed not much damage either by its being thrown on its side or its edges being broken — The Opinia & Enthusiasts notwithstanding, now lacerate our fingers by the sentiments of their scepter —

This Enquiry does not arise from any nice principle into deep metaphysics. For example the idea of self love is no positive evil and only the perversion of the love of Deity. First principle — The contrast man and his Creator remain as two sides — Pride is merely a principle of assimilation that must form the constituting & lodge in the Imagination — Tones in instruments just & sublime Execution — The love of Fame is merely a wrong direction of the desire of immortal life & happiness — — Affection — — — — ~~[illegible]~~

Middle

Little reason intended from things to persons — even the infect is a Posture out of joint or relaxation it is merely disorder — then evil is the same way that dislocation of the bones of the body are pains do represent the mind — "The Scriptures suppose the Fall of Lucifer being the consequence of the wrong direction of the mind etc. Lucifer may be in a broken state —

The idea of moral evil is not original, it is old the same opinion is held by the Celtic people of old England — Some people pleased with it as it mitigates the blame from their doing of creating Evil — when man fell then was an alienation of divine power from his will — He was precedence his Subject therefore with the last words of the Poet —

"Evil discord Harmony not understood
All partial evil universal good" — (Pope)

Man moral evil consists in want of strength in the will in either of the minor —

Just as physical evil consists in weakness of the body

Limits & liberties of the Man

immortality

increase we are the effects of Dr. Z's views of the nervous centre remained in all its variety of forms & combinations

II. We indeed it may not be proper to say that debility is the universal harbinger cause of disease — 2nd that debility there is an increase of excitability — or an increased disposition to be acted on by stimuli — 3d that debility prevents morbid action, or a disease species of Excitement. This is not a new opinion at Dr. Hoffman hints at it when he says "Morbia gignit Spasmos" This is merely what he meant by it — the Electric fluid does not more certainly invite the Lightning than debility does morbid action — nor this irregular or wrong action I have said disease consists — excitement may be excessive yet it it be irregular no disease exists as in common Vocal & Instrument exercise the blood vessels and Nerves are there highly excited, but excitement is of a superior kind and of course healthy — now I differ from Dr. Brown only in matter of degree to consist in debility

Lykey

4th Diseases are always partial - I know of no disease wh at the same time affects every part of the System - in fever it is confined to the blood vessels generally - in Phrenitis it is blood & pain in the Brain particularly - In Dysentary to the Bowels &c &c Hence, the 4th then gn. Je. the most every disease consists of unequal excitement and the cure wd. be to restore consent in equalizing the excitement in wh. Health consists

Dr Wells has lately shewn this to be the Animal Spirits which are diffused through the System principally - The first two of Electricity and Fire apply - Some parts seem to be conducters in state of peace - others of resistance. In Shock wh causes are by the discharge of the Electric fluid into the nervous parts - e.g. the causes &c. as lightning or Irritation - 5th ly the irregular excitement shews itself in some & deficiency of dilation this is sometimes exclusive - as in Tetanus the force of action is great - Sometimes in Pain as I before said is merely one Simptom of inflammation and not universal - This Symptom is not universal Internal diseases are not accompanied by

for it — as Chills & Inflammations are more accompany to tissue than high & hot in fever — In diseases of the bowels there is more pain than in diseases of the lungs simply as they pass little / nitrits & much contractility —

III I have now arrived at my last proposition — in a general Inflammation & none asserted there is but one fever in the world — This will Settle Sonny upon — but with full confidence in the principles I teach, I now said that there is but one Disease in the world and that consists in a regular excitement or Morbid & Wrong Action whether it may be seated in the blood vessels nerves. Liver or any other organ or Lymphatics still I maintain that there is but one State of disease — none for lack of the one rule of disease you will See Gentlemen that much trouble will be saved in the Study of Medicine — all diseases have one invariable cause — wrong or correct action — in fevers this is seated in the blood vessels but it has been said no obstructions disease? no. they are the effects of disease but by reasoning they actually prove a cause of disease — I have

from with the consequences of disease — Thus the water observed on most children is not the cause of the disease it is the effect of the diseased action in the brain. In the like manner the inflammation of the liver & Diseases Relations is not the cause but the effect of the inflammation in that Viscera —. Were these disorders produce death it is by a reaction on the System — there are 3 kinds of one brain pt the Fundishosing debility 2nd the morbid action or irregular excitement & 3d disorder & the effect of this action —

In ..... are comprised all that is useful in the writings of the nosologists

Cullen, Sagar, Boerhaave, Linnaeus, Cullen, who have divided Diseases into classes, genera & orders & species — It is painfull to see to suffer some from great Pain — but I prefer new methods to old errors — our chief nosology are 1st it is imperfect 2nd it is unfractable — & 3d it is intricate & the practice of Physic — 1st it is tedious. diseases cannot be divided so accurately into classes & species as their symptoms

Chang

diseases must necessarily run into each other — some must arise from this cause — this consul-
tions & Mr Ewing's opinion alternate — Plants and
animals are classed into genera & species for
they never change into each other — The cut head
of an ox growing onto a lion or an oak tree to
a plane tree? but the symptoms of disease con-
stantly vary — Q. by — I say it is impracticable
to classify diseases as we do plants — They change their
seats & premonitory & all their appearances that we
might as well pretend to classify with spontaneous
appearances a storm according as it was ushered by thun-
der & lightning by rain or without rain or without
wind with hail or snow or without them — as to
classify diseases under different names as they appear
in different parts of the body — Gastritis — Enteritis
Pneumonitis Hepatitis — Peritonitis — alternate
Q. The predisposing cause is endemic debility — in
infants may be the direct or indirect — 2d the
exciting cause must be an irritant or poisonous —
the symptoms of fever may vary according to
several circumstances of the exciting cause — whether
it be taken in eating or drinking food or cold & other
disease

disease [illegible] the same [illegible] the same
exciting cause [illegible] different Symptoms
as the system is [illegible] to any particular
Symptoms — [[illegible] of [illegible] — [illegible]
[illegible] or any exciting cause [illegible]
[illegible] of disease [illegible] causes are [illegible]
[illegible]] [illegible] it is [illegible] to the
[illegible] in the first, [illegible] all dise
[illegible] the same [illegible] by [illegible]
[illegible] we wait till the Symptoms [illegible]
[illegible] by [illegible] the disease [illegible]
[illegible] by a Gentle [illegible] — in its for-
ming state the [illegible]
[illegible] before he is attacked by yellow [illegible]
other diseases is readily removed by washing, the
[illegible] in warm water — a gentle sweat or the like
[illegible] equalizes the unequal excitement — thus
[illegible] according to the [illegible] cure
[illegible] strange as it seems the disease in its
forming state

[illegible] remedies [illegible] the prevention of [illegible] other
[illegible]
[illegible] the importance of [illegible] hot
[illegible]

4th Seat of disease — Lives are given of more danger is ~~to be~~ apprehended from diseases of the brain than of other parts, and it is of the trachea we are more conversant in Pneumonic Tracheitis than in Pneumonia [more cases in respiration and Sinuses when acute forms are opened ---- ---: for the nosology, we can find disputes among physicians] This division will not render the practice of surgical operations or in cautions it will increase the credit or general Bonte among nosologists who prescribe given the name of a disease units need not be so frequent as among those who reside from the State of the System

Diseases appear in several forms viz 1st in convulsive action as in Epilepsy 2nd In Spasm as in asthma — Spasm is either tonic or ~~clonic~~ clonic — the first is constant as in tetanus the 2nd is alternate — 3d In great heat either external or internal — as the Skin seems in Tomato Bronchitis — 4th In great Itching on the Skin — which causes the arms — In the Serenda-dinus ke — 5th Pain in the Stomach which is Sudden & Severe comes

[illegible] as in Arma ...
2d in what I have called Suffocated excitement
where all inflation & Sometimes Sensation ceases
this as I have here after mention is the worst
form in wh disease can appear — in these
cases, the abstraction of blood vessels appears
in the pulse — it occurs in fevers of
the most malignant type — This Suffocated
excitement as I have called it appears to
have its seat in the blood vessels — each of
the above forms of morbid action appears in
some part of the System occasionally the
pulse each appear to have peculiar seats wh they
most commonly occupy — This the Sinking 5th
I mentioned as the 4th form of Febrile excitement
wh generally occurs in the medulla & fibres in
the inter [illegible] has observed it to be a Spasmodic
form of the Gout — Spasm usually occurs in
the Muscles & blood vessels — certain that
pain varies according as it is seated — Thus it is
acute in membranous parts — Dull & heavy in
Parenchymatous parts Lancinating in Muscles — gnawing
& boring in the bones — [illegible] pain

[illegible] that [illegible] is [illegible] in all
[illegible] varieties. It is a vain thing for our nosologists
to say each of the terms in the morbid action appears
[illegible] a [illegible] disease [illegible]
a mere as [illegible] — If excitide colitis arises of
form of diseased action — it depends on the
degree of excitement — it may be removed
as bleeding in acute fevers — Inflammation of
consider as an effect of morbid action it is a [illegible]
[illegible] of [illegible] Excitement — In it there
is Error loci, it is always accompanied by inflammation
but it is not the cause of it — In violent mor-
bid action inflammation does not take place —
Hippocrates mentions several cases of bowel & liver
where there was no inflammation this is the
form of morbid action — It occurs to us in the
[illegible] — [illegible] have been called [illegible]
but this is a false [illegible] — As [illegible]
[illegible] all [illegible] to [illegible] [illegible]
Many debilitate is be a disease at all [illegible]
merely as [illegible] [illegible] [illegible] causes
of disease — Pleurisy [illegible] of disease
is into sthenic & asthenic — I have

[illegible] Dr. Brown
[illegible] diseases in diffusion of excitement &
irritability over the system — in this Dis-
[illegible] cases death is consist — [illegible]
[illegible] from the Brain he
[illegible] in all cases is overcome
[illegible] — [illegible] excitement &
[illegible] concentrated in
[illegible]

[illegible] electric [illegible] the [illegible]
[illegible] effects of Narcotics — [illegible]
[illegible]
[illegible]
[illegible]
[illegible] whole lines with ease
[illegible] Nasologist to a Linnæan colle-
ct [illegible] are [illegible] arrangements con-
of [illegible] in [illegible] by a Linnæan Key — The

the principles of both to have compared
the extent equally spacious and commodious containing an equal number of apartments
all of which are assigned to a single Rent
May Thus Govt. will relieve your of the
trouble & weight of the hundred Rents —

[illegible]

[illegible] excitement of the [illegible]
[illegible]

[illegible] — Thus we find it difficult [illegible]
a person [illegible] [illegible] case [illegible] [illegible] [illegible]
[illegible] [illegible] frequence of [illegible] [illegible] [illegible]
[illegible] of [illegible] [illegible] [illegible] in a [illegible] [illegible]
[illegible] [illegible] [illegible] removal from the [illegible] will
[illegible] the patient & much assist the cure of the disea-
se — I shall commence the [illegible] of the
[illegible] [illegible] of [illegible] [illegible] [illegible] [illegible] of certain
[illegible] [illegible] [illegible] nurses [illegible] the Treatment of
children wh are of a debilitating nature — the
[illegible] [illegible] [illegible] to have [illegible] [illegible] the [illegible] [illegible]
[illegible] we acquire [illegible] [illegible] [illegible] [illegible] [illegible]

“A man perhaps the moment of his death
“[illegible] the [illegible] [illegible] on Death
“[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
“[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ”
[illegible] [illegible] [illegible] [illegible] to [illegible] even [illegible]
[illegible] [illegible] the [illegible] — From the [illegible] — [illegible]
[illegible] — labor — [illegible] — [illegible] [illegible]
[illegible] mother — [illegible] [illegible] often [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] articulation [illegible] accident [illegible] [illegible]
[illegible] [illegible] — [illegible] the [illegible] practice of wash-
ing new born infants with [illegible] Spirits
wine &c

Ale — This custom is very prevalent but you will always hear your testimony against it — it causes prudent relatives — wine or even strong water are too stimulating — when there is little secretion or warning for support given in pure water — in consideration of the air is sufficient to insure measure, motion &c — the best when crossing is used the air is valuable but a 4th is the best of the mother either by excess in quantity or unwholesomeness of quality — for the special use of acid substances which strong drinks and the fire and all act by producing indirect heat

4th — Effects of diseases in another remote cause of disease — legal calls — legal sedentary habits & in more frequent use stays & more tight articles of dress act as remote causes of disease — Effects upon of the mother or those of the children are to be considered as the health of the child — The Act of sex has a stronger influence on the Milk & of course on the health of the child

Women have had health from the cause is in unwholesome food & have had an influence of health induced in the child by the nurse using a spirit of Rum —

[illegible]

whereas frequently affects the nerves of children yet the use of ardent spirits allays & mitigates certain pains, with wh children are often affected often act as remote causes of disease in them tho a lead practice — 8th The increasing application to studies on Sundays — especially the ancient time of studies prior to obtaining sufficient subjects — this is abound in Parents sent Schools are attended with other inconveniences — a close sandy room — The tyranny of a School master — this constitutes the mental, moral & bodily as well as animal health — Thou been called to many children brought home sick from a close school room or worried out often attended cruelty School masters — yet the amusements of children are those which not only is accidents but cause also of future diseases as running, jumping &c. if they run risk for the rest are arms &c. &c — instances have arisen of miraculous cures from fits & also from fall-contusions &c by Knew an instance of a rational mother who shunka times on the idea in consequence of which a

hypocrisies

[illegible] — The influences of the atmosphere & air are the remote causes of Diseases — as [illegible] of its various qualities — these are heat — cold — moisture & Dryness 2d But the air is also a distant cause of diseases besides these — 3d by its certain impregnations of miasmata either Animal or Human — 2d — it is also and indirect contribution by combustion & the Respiration of animals — certain Manufactories emit effluvia which renders the air unwholesome — also the putrefaction of plants — 4th by certain exhalations as the Miasmic effluvia — [illegible] — [illegible] opinion of [illegible] air, in [illegible] Brown —

[illegible] to the various qualities of the air as remote causes of disease —

The Human Frame is formed so as to be able to bear a considerable variation in point of temperature in the surrounding atmosphere — but the limitations are circumscribed and most agreeable when the temperature is from 62° to 75° of Fahrenheit — this is the area of [illegible] periods of life

[illegible] necessary in old age but little.

[illegible] temperature is different [illegible]

[illegible] stimulus to act on all animals —

[illegible] different degrees of heat —

[illegible] from the temperature of 32° or ~~[illegible]~~ lower

to some animals to stimulating — as perhaps 70°

man — but yet cold are relative terms for

[illegible] blood is perfectly — [illegible]

[illegible] heat of 70° [illegible]

on the arterial system — it induces a languor

and results accordingly with an increase of exci-

tability as the cord distribution to be acted on

by stimuli — It never acts as a cause of

fever in the seat where it is chronic or has

been continued — The first indications being continue

[illegible] existence of the heat of a vertical sun but [illegible]

[illegible] a languor & giddiness — it [illegible]

[illegible] accompanied by [illegible]

[illegible] — it induces [illegible] indication

[illegible] [illegible] & [illegible]

[illegible] the stone — [illegible]

[illegible] — Sneezing [illegible] & [illegible]

[illegible] ? [illegible] — Inflammation [illegible]

Cor —

the [illegible] convulsions & death — 3rd heat acts on
the [illegible] [illegible] convulsions [illegible] hysteria
&c. hence these are very common in hot [illegible]
[illegible] [illegible] — [illegible] [illegible] [illegible] such wak-
[illegible] often the effect of heat — 4thly the heat acts
on the [illegible] [illegible] [illegible] [illegible] & [illegible]-
[illegible] [illegible] [illegible] [illegible] [illegible] tetanus
[illegible] [illegible] [illegible] the [illegible] ones — hence
[illegible] the frequency of tetanus in hot countries —
5thly heat acts on the stomach & [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] an excess of [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] the latter [illegible] [illegible]
[illegible] Cholera [illegible] [illegible] — the [illegible]
of heat on the appetite is [illegible] in [illegible] [illegible] [illegible]
visit the East Indies, they have a great [illegible]
of appetite [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible]
[illegible] [illegible] of the [illegible] [illegible] climate. [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] —
6thly heat acts on the skin [illegible] producing a profuse
discharge of sweat — this is [illegible] [illegible] [illegible] [illegible] —
a greater degree of [illegible] [illegible] [illegible] of the
skin — this seems [illegible] [illegible] [illegible] [illegible] —
[illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] [illegible]

[illegible] — [illegible] — [illegible] — [

[illegible]

[illegible] prevalent in hot countries — 9th heat

[illegible] in the [illegible] Serena cataract

[illegible] occurs most frequently ~~[illegible]~~ in warm climates — During

[illegible] ~~[illegible]~~ is prevalent in

[illegible] heat [illegible] of the season

[illegible] heat acts on the [illegible]

[illegible] with the exception of [illegible]

[illegible] — [illegible] understand [illegible]

[illegible]

[illegible] emigration [illegible] increased

[illegible] greater

[illegible] hot countries [illegible]

[illegible] — [illegible] heat [illegible]

[illegible]

[illegible] more warm

climate [illegible]

[illegible] — [illegible] Portuguese [illegible]

[illegible] example — [illegible]

[illegible] note to Brazil [illegible]

[illegible] inconveniences of [illegible]

[illegible] this climate — [illegible]

[illegible] cases [illegible] acts [illegible]

[illegible]

[illegible] — [illegible]

[illegible] detail of [illegible] men —

Hitherto we have considered the effects of heat acting on the body under ordinary circumstances but the action varies if the system has been previously exposed to cold or rather and more certainly when with more force — inducing preternatural excitement — thus as heat of 77° in October on the 17 of March 1791 was followed in the Citizens of Philadelphia with universal languor & [illegible] [illegible] — so this heat occasioned languor & fatigue it seems more been but pleasant stimulation — Sentimental powers are caused by that succeeding bath — a relaxation [illegible] a green Christmas makes a fat church yard" is well received — [illegible] the same effect of contrast of producing changes of temperature more in [illegible] to endure the cold succeeding hot weather —

Bordeaux informs us in Travels that a Second [illegible] at Dakles [illegible] the thermometer from 112° to 80° the inhabitants can not [illegible] not an easier clothing — now his temperature in summer if it had not been so sudden would have been very agreeable — I mention

Premium has to give more entire relative heat
which are — the mutual attraction of heat & health,
information increases in times — This is more effec-
ted in the case of the weather in March — uniformly cold &
warm weather is healthy. Observe increase much fatal
effect of heat & cold — the immediate movement of the
relative density of increased as healthier climates and
they are in greatest — the summer at Rome in
1756 was in consequence of snow in the revolution of the
inhabitants and it was the healthiest — all the instid-
ts very nearly complete. Cold in a climate since wea-
ies appeared of a bilious type — this has caused diseases
generated in one season & appearing in another —
That long continued produces an insensibility to
cold — hence the real Indians at Isle Royale require 2
or 3 years to get there when they arrive in
the United States [illegible] the cold better
than the natives —

We are able to live in a degree of heat 20
or 30 w above degrees of heat & cold our own
temperature with out inconvenience — the reason
of this I pointed out when on the subject of ani-
mal heat — I think be the effects of heat

as above enumerated

Great pains are taken to ascertain why men degenerate in
ness in a warm climate - paradise? It was un-
der the enervating sun of Egypt that the arts
had their origin & flourished - and it is in hot
climates that the greatest instances of Longevity
have been observed - I answer when Men
depend on themselves by reason & experience on
the aid is necessary to attain Longevity -
The aborigines of this country from their Sim-
ple diet and habits are not subject to diseases
so fatal in Civilized Life - From Africa peo-
ple grow old merely from this cause - for their
form is fatal to the mental Faculties of Eu-
ropeans whose mode of Life differs so materially
from theirs - The same observations obtain in
Jamaica - their climate is fatal to Europeans
who resort there unless they accommodate their man-
ner of living to the Climate - In warm Coun-
tries, the Inhabitants live according to reason -
Mr Lawson informs us that the Spaniards who
live at Madrid by keeping close in the house
during the heat of the day and accommodating
themselves in dry and cool to the weather this

drinking copious [illegible] cools it in-
convenience from the excessive heat of the Summer
— I remember then that most diseases arising from
Heat are the effects of an error either in diet dress
or the exercise of the Pores & skin — Some Tempe-
Laci —

The effects of heat are different as it is
accompanied with moisture & dryness it is dissi-
ate the [illegible] of the air in Arabia-Travellers
who have to map over the deserts of Nubia till
a refreshing water through rest the occasion-
ally breathe cool and a refreshed — [illegible]
of Water placed on a stone in a close room alle-
viates the unpleasant effects of close stone rooms
I should fear as if a certain portion of Water
were necessary to respirable air — The effects of
heat when [illegible] moisture Seldom are mor-
bid when the heat is less than that of the
body — Dr Lind. . . . . .

. . . . . .

Winterham has observed that Summers unfor-
mly warmer and more equable warm are the most
healthy — a temperate moist air is peculiarly

peculiarly adapted to give the face an handsome color — hence in Ireland & England where more rain falls in the course of a year than in any other part of Europe the Skin is remarkably rosy —

Cold is a negative quality — acts only by abstracting the Stimulus of heat — Said to have been supposed to act as a Stimulus — but this is an error wch has arisen from the increase of excitability wch occurs in debility brought on by cold its action is uniformly Sedative — 1st Sedative action is evident 1st from the debility induced by the action of cold on the System — Laborers & Travellers in cold have recourse to this — 2nd I infer it from ~~the~~ the Slowness weakness and even absence of pulse followed by uncomfortable Sleepiness & death in persons exposed to it — The Pulse beats only 40 strokes in a minute in Greenlanders —

[illegible] clearly in the case of [illegible] nation — 3d from the colour of the appearance of Coldness in Linear Spots or [illegible] they ~~in disease~~ are [illegible] except in the

diseases producing direct debility — as in Mania
Small Pox &c in wh it reduces morbid action
There it may be said that it acts as a Stimulus
in Fevers of hot weather by bracing the System
as a Tonic — but cold air in these cases acts
merely by abstracting the Stimulus of heat wh
induces indirect debility — This removing of indirect
debility has been mistaken for the effect of
Tonic action — To illustrate this let us suppose
the healthy point to be 75° now supposing
the indirect debility produced by heat to be 95°
the cold air by abstracting 20° reduces the sys-
tem to a healthy point — from its indirect de-
bility — I wish your Gent to take noti-
ce of this fact — it is of extensive application
in practice —

Let us now attend to the applications
of cold on different parts of the system —
on the arterial System Cold induces debility
& accumulates excitability — and increase of
the irritability ..... of the muscular fibres pre-
disposing them to all kinds of fevers — In the
diseases also of painful Sensation in the Breast

Great as the academicians experiment with ice near the North pole — 2nd It induces an indisposition to motion in the organs of Voluntary motion — tho' the action of the involuntary Muscles are increased if any thing — hence the saying that man in the warm countries was designed to be the Slave of those in cold climates. The wills of the former are not active & must be according to other peoples wills — 3d Cold diminishes the Sensibility of the nerves — It produces when intense a dull pain in the head Deep — & Death — 4th Cold invigorates the appetite for food — Horses eat more in cold than in warm weather — 5thly it ~~increases~~ increases the venereal appetite — perhaps this may arise in cold countries from the difficulty of procuring subsistance for a numerous family of Children 6th Cold renders Sweating difficult and by stopping Perspiration causes an increased flow of urine — Cold is supposed to be inflammable by Friction — this may perhaps arise from the reflection of Solar Rays from the Snow — & are always attended with cold winters — Cold & Dry

said it was to cause fever - this disease depends
partly on weak Solids & partly on Vitiated fluids -
resulting in some cases from want of exercise &
perhaps the cold may influence but I rather think
are that some other causes combined with the cold
in this case — There remains an other operation
of cold on the body when carried beyond the
degree producing gangrene - in this color of the Skin
appears similar nearly to that of Petechiæ
in dark colors - it is produced by the deadness
of the Capils which allow the blood to rush into
them and gives the blue color - In a still
greater degree it produces gangrene or a total
dis organization of the part - Cold has a
powerfull influence in reducing the size
not only of plants but of living animals
the armord from this cause is lost by great
Light - Cold acts most powerfully during
sleep or in the Night - Sailors, Sailors
& other Laboring poor are well acquainted
with this fact. Nautical writers notice this
Death from cold after Shipwreck generally
comes on in the Night - Time

hence most diseases come on in the night —
Cold has a curious action on all glands at times making them worse when they are nearly healed —

These are the effects of cold in ordinary circumstances but by alternation with heat they are increased — it predisposes to bilious fevers when it succeeds the heat of august — The abstraction of 20 or 30° of heat destroys the equilibrium of excitement & excitability and thus invites morbid action — it induces direct debility just as the abstraction of blood or any other stimulus — Cold acts as a sedative in slowing the respiration wh is an effect of indirect debility from heat — The yellow fever is increased by cold unless it be intense enough to destroy the miasmata wh produces it Weather wh is uniform cold is always healthy In Canada disease is common during the cold weather but on the return of warm weather diseases return — Dr Lettsom makes the same observations of Russia a catarrh is unknown in that country

Country during cold weather — Pantopides says in Dame of Norway — Inflamatory fevers never come on till the Spring — In these cold Countries Inflamatory fevers generally run on to the Gangrenous ~~Gangr~~ putrid State in wh the System does not react — These diseases are generally in winter and not brought forth till Spring —

Cold Long continued produces an insensibility to heat — hence the inhabitants of Northern Nations bear heat much better than we do — but this insensibility is lost to every Succeeding Summer in the same manner as cold —

Persons who endeavor to render themselves insensible to cold resemble the Baron who endeavoured to teach his horse to live without eating — but ~~fast~~ as the animal learns he dies —

Heat succeeding cold of that duration causes Gangrenous or highly Malignant fevers — Van Swieten takes notice of this — The Plague is often excited in this manner — Cold is not influenced by the Vicinity to the Poles — ~~Sw~~ when

when persons live by Reason & experience and clothe them selves suitably they experience no ill effects from cold – Sir William Temple says. Cold hardens the animal Spirits – In Canada the Cold is not felt so sensibly as in the States owing to the Inhabitants taking greater precautions against the influence of it – Thus have their remedies double – Their houses were thick and never venture out of the house without furs or thick Clothing – According to Mr Guthrie the Russians suffer less at home from cold than the more Southern parts of Europe –

a Canadian Lady who spent a winter at N. York informed me that She felt more cold in one winter there than ever She experienced at Canada during her life owing to the alternations of heat and cold & Moisture

Inflamatory Diseases were moderate in the time of Sydenham requiring blood letting as they now do in the middle States – but Luxury & effeminacy have contributed very blood from England – and yet so prone is man to imitation that we presume for

for the name of a Disease here just as they now do in that Island – If our fellow citizens on the Potomac do not bear bleeding so well as those of the middle States – we must ascribe it to indolence & luxurious effeminacy – Dr Bleghorn in Minorca seldom bleeds up than 16 or 20 ounces in a pleurisy

Dr Mc quain bleeds copiously in Jamaica even when the pulse is scarcely perceivable and Dr. Carr informs us that in the Island of Santa Cruz a North west wind renders bleeding more necessary from the sudden transition in the temperature of the air – rendering the diseases more violent – It is not necessary to say that we must be careful to regulate cloathes as the weather changes – I have known thousands of people diseased from too little and cloathes – but never but one instance from too much cloathing that was a case of Pleumatoesis thus induced – The climate of the middle States & of middle Latitudes is not necessarily unhealthy –

– The –

God is the most detrimental to the Life of Man that any
other cause

the changes necessary to be useful for those that require their use should be carried to accommodate the

Lecture 27th

Maritime climates the Natural effects of cold as it acts in carrying off the heat of the body — in England the Temperature of 30° is more sensibly felt than 40 at Philadelpa owing to the moisture in the air there — The Russian Soldiers who spent a winter at Plymouth declared they felt the cold more severely there than they had done in Russia from the moisture of the air — The coldness of the Climate at Walland is owing to the moisture of the air this renders it requisite for the inhabitants to put on warm clothing in the Evenings of this season of the year

Cold acts more or less certainly as it is applied to the whole or part of the body — thus Cold feet more frequently induces catarrh than a more general exposure to it — The cold sweat of a Physician on a patient who has been thrown to intense fibrous

A current of air

air on the neck of a person who carries, though a broken
tone of glass often produces inflammation and stiffness of
neck — I know an instance of Catarrh induced by
a young woman leaving off a Ribbon she had been accus-
tomed to wear round her throat — Cold does not act as
a Stimulus in these cases but it abstracts the Stim-
ulus of heat, now it is a fact that in abstrac-
tion of one Stimulus is always followed by an
increase of an other — Sans doubt the Equilib
rium being destroyed between excitability & ex-
citement — disease is induced — hence the reason
why partial application of cold acts more power-
fully than general as it tends more to destroy
this Equilibrium — Hence I never prescribe
cold for a patient with a chronic disease
without recommending the keeping the feet warm
— The feet & the mouth are the avenues for
almost every disease to wh the human body is ex-
posed — The same degree of cold acts more
or less powerfull as it is accompanied by windy
or calm weather — I think I have observed
more Catarrhs after a chill of windy Cold
Weather

the
In

weather than when the weather is calm - this acts by concentrating the heat & the pores by perspiration -

Thus we have considered the effects of the sensible qualities of the atmosphere as far as relates to heat Cold moisture & dryness - We go on and consider the variety of these effects at different seasons of the year tho' these vary in the country & in cities - The following list of Deaths during a period of 7 years in the Parish of Nicholas Situated in Boiogne on the Sea, Zone of France on 50° latitude published by Dr Raionon will afford an Idea of the average number of Deaths in the different Seasons - in winter 365 in Summer 272 - in Autumn 357 - Spring 299 hence it appears that second degree of mortality is in the autumn - perhaps this might have been in part caused by Marsh Miasmata - In this climate disease prevails much less in winter than it appears to have done in the West Indies - The Spring & Summer were most healthy and so they generally are here - The Mortality of each month in the year may be seen from the following list extracted from the same work - In

In January there died during the year 57 boys
39 girls 11 married men - 14 married women 12 widows
18 widowers - Total 112 - in February 40 boys 35
girls 16 married men 12 married women 4 widows
4 widowers Total 111 in March 42 boys 27
girls 9 married men 9 married women 12 widows
13 widowers Total 112 - in April 30 boys 31
girls 17 married men 13 married women 7 widows
& 10 widowers - 108

In May 31 boys 30 girls 10 married men
14 married women 10 widows -

In June 21 boys 27 girls 8 M. Men - 11 M.
Women 1 Widow - 0 widowers -

In July 22 boys 23 girls 11 M. Men 9 M.
Women - 0 widows 0 widowers —

In August 29 boys 22 girls 18 M. Men
~~[illegible]~~ 8 M. Women 1 widow 0 widowers

In Sept 36 boys 27 girls 12 M. Men
24 Married women 3 widows & 3 widowers —

In Oct 43 boys & 35 girls 8 M. Men &
13 M. Women - 0 widows 5 widowers

In December 38 boys 35 girls 20 M. Men
13 M. Women 0 Widows 7 Widowers Total 112 -

Now die

[illegible] — This is not the case in the more [illegible] climates and in a [illegible] — which is an [illegible] [illegible] — [illegible] — [illegible] — [illegible] — the same [illegible] in America — and [illegible] Sydenham observes that the diseases of winter and those of summer [illegible] make the same observations in different words — he says the diseases of summer are [illegible] and the diseases of winter till mid summer — [illegible] most [illegible] during the [illegible] winter the [illegible] of the intermittent & continuing [illegible]

There appears to be a kind of relative in diseases that [illegible] as it were to take breath or to change and set of designing weapons for an other —

Nature influences the diseases

diseases much less cal. — Night air is from this cause unwholsome — Mr. Bruce informs us that his sailors at the approach of Night became cowards as the moisture rendered them chilly — Mr. Indian-ness or Cat. catarrhs are almost always caught indian — in the exposure to Night air — Remember it is a very common way of taking cal. so much so that it is a gallant thing to make come in a coarse voice

The common remedy is seen in the precipitation of the Dew from the upper regions of the atmosphere —

The yellow fever claiming its prevalence in more frequently than other diseases then at any other time — The fever begins to be nearly about the 1st of august in Pennsylvania during the year 1793 in the prevalence of the yellow fever Springs had had been dry for 6 weeks were fit running without any rain having fallen — This fact I believe to be it given an intelligent farmer near this City. Sickness and debility continue till a severe frost or a very heavy rain either of the check it — I say severe frost it must be sufficient to form ice. Two mere nightly frost is insufficient to check & rather increases the disease — Night

Light rains have the same effect - & the reason I shall presently point out

Let us next proceed to the insensible qualities of the air as remote causes of Disease - The concert of certain impregnations of the air, and first of Marsh Effluvia - This is a fruitfull source of disease - for the production of Marsh Miasmate two circumstances must coincide - to produce them animal & vegetable matter heat & moisture - the heat must be intense and continue some time - Moisture is necessary for no exhalation can take place from dry ground - but it is also necessary that the moisture should be mere vapor - if it cover constitute the surface of stagnant nothing but pure water will exhale - Moisture and not liquidity is necessary or requisite some years ago the marshy grounds at the lower end of this city was inundated in april -

Many fishes & many animal & vegetable matter was deposited on them - many was sucking to rise after it - The heat in

on a plan of equal was insufficient to induce
irrigation — The fact was mentioned to me by
Gen. Dr. [illegible] of Lincoln and
others — this want of heat must have been the
reason — Some years after I visited a similar
tract of land in Green County where the weather was very
cool — there the lower a section of the Rocky
Mts. I wanted to find that the same matter
would continue and it did so — Plants
could be reduced to more but no more exhal-
ation takes place from bodies of water — Mr.
Powell in his Essay observes respecting the
Western Seasons where the Rocky Mountains
are covered with water the country was black
and barren — Patzelt in his account of Gamma
observes that there is a deficiency of rain fall
to cover the Steppes consequently water
in Venezuela were remarkable healthy — until
a sufficiency fall of moisture then commence
complaints overflowing men diseases uniformly
occur — This fact is observed in the Delá-
ware State that whenever rain falls in suffi-
cient quantity to cover to cover the parched land

heavy rains to cover the ground prevents exhalation.

Marsh miasmata is most active in the Morning and Evening when the Miasma effluvia descends. I have observed it lieth on the City constantly in the Middle of the day nor middle of the Night - but in the Morning & Evening

an interval not greater below the Neck informed me that the New comers were not subject to Intermittent fire first year owing to the Natural constitution resisting the effects of the Miasmata

grounds the Neighbourhoods are healthy

In this State a line will draw the line in the Neck as it is termed between the Delaware & Schuylkill just below this junction the same thing happens & in the year 1803 when the weather was dry so intermittents occurred in the Neck — healthy seasons are in the Autumn or under circumstances — there are no ~~fixed~~ ~~permanent~~ ~~rules~~ fixed principles with respect to the quantity of Rain wh falls and wh render some grounds healthy or unhealthy — I have said in the 1st Vol of my enquiries and observations that heavy rain promoted exhalation — but by this is only meant an heavy shower wh acts by washing the green surface wh forms over ponds and in that manner allows of the escape of effluvia wh were before confined — but this does continue till they come where Winter prevails — it was in Barbadoes that the fact Mr S mentioned in his L. Col. Mifflin's was received in a letter from Dr Dawson — The direct Rays of the Sun are necessary for exhalation of Marshy miasmata — The

The trees we are accustomed to prune or cedar trees emit offensive Miasmata

Marsh Miasmata are said to proceed from just in the vicinity principally — animal putrefaction does not generate it — they after putrify in open air at least without producing disease — a certain smell comes from them — now no smell is perceivable in the effluvia we are treating of — perhaps this smell may be designed like the rattle of the snake to warn us of our danger and direct to sources we if not prevented will generate disease

If putrifaction of animal offalls were sufficient to generate Marsh effluvia Lisbon — Edinburgh & Maine had long ago been depopulated. Stables would not be permitted to remain so near our dwelling houses as privies are — the life is be placed in our hands But the fact is that volatile alkali is disengaged in the putrefaction of animal substances & perhaps neutralizes and morbid effluvia that might otherwise exhale — Privies have been said to produce disease. it may be explained

explained from the Vegetable offalls of Kilchenstown
into them —

The Substances which have been known to
produce disease by the impregnation of the atmos-
phere are as follows

1st Marsh Miasmata proceeds so called from
arising from bad grounds — 2nd Putrid cabbages
have been known to discharge this gas the Produces
Disease — Dr Rogers of Cork mentions a case of Put
rid Meat produced from this Source — 3d Putrid
Potatoes — an instance of disease produced from put-
rid Potatoes occurred on the Island of Portala from
an bound a ship 11 of 13 died the rest on the mere of
the disease which was a Malignant fever
4th Putrid grapes has produced disease — 5th Dam-
ed Meal and cereal seeds in a state of fermen-
tation — 6th Carcasses & animal bone manure
disease at Sea — 7th Putrid onions — 8 Cattle
in a putrid state has generally produce fever
twice in this town and at Ringston fourteen
9th putrid Cotton 10th Putrid flax Hemp
Hay & Straw have Severally been seen to
induce disease — 11th Putrid Turnips & Seeds &c

of Cholera in a ship at Cuba, for a previous
[illegible] yellow fever — 13th Cotton bales
under Hatches & papers have been known to pro-
duce disease — a Physician his cause was
brought on in the whole gaming of the treasurer
at N. York — Waller mentions cases of disease
in his Bibliotheca induced by rotten timber of an
old Loghouse — it was a bilious fever and affected
2 or 3 persons exposed to its exhalations — Ships built
of green wood have been known to produce disease —
Dr Jones observed when Surgeon in the army
he got the port clean in the Galleys & left
it Ships they were remarkable healthy — but when
the Bark of the logs in the Galleys were composed
began to putrify — wh it did in the 2nd year, numer-
ous cases of disease bore testimony of its unhealthy
exhalations — the same cause effuvia in new Ships
Capt Bell informed me of a case of this kind —
Dr Takes notice of it — Stagnating air in the
holds of Ships frequently produce diseases at Sea &
in the Port arrive in Port — the same cause
prevails in Cellars frequently — This may in the
latter cases be caused by green wood &c in building

in Sizes and the Excrementous induce disease
Dryness in Cellars alleviate this deleterious
effect - this was recommended by Dr Franklin
Rubbish water was frequently by its Putridity &
Stagnating on the Roots of Repairs generated disease
The exhalation from Tacks Gutters Sewers Ken
in all the same disease - Dr Priestly tells us of
a friend of his Dr - who was taken ill in con
sequence merely of Shifting a hand of Stagnating
water - Duck Ponds & Hog Sties have produ-
ced disease - Pits should never be suffered na
near houses & Burying grounds near a house has
caused disease - a cold fall of weather will
some times kill those seeds & warm moist
weather succeeding causes them to fermentby
certain animal Substances as Pelts human
bodies - Sears Rivers rudes are one cause a Trade
on the Shore of Mollaur induces Bilious fevers
In which dear climes it has some times been
ascribed to contagion but this is not the case
for it occurs when the Person died not due of
a contagious disease - also Putrid fish & mon
other animal Substances have induced - Fitton

[illegible] [illegible] [illegible] disease & irritation at least &c –

There are the principle sources of disease from impregnations of the atmosphere – on what part of the body do these effluvia act? If from indirect debility in the brain – this in some cases is so violent that syncope & even Death have been the first effects of them – If apoplexy has been thus induced

They appear to act next on the alimentary canal & Stomach – hence the discharge of bile – hence Cholic – diarrhoea & other diseases of the intestines – This teaches us the propriety of exhibiting Emetics ~~emetics~~ on the first dawn of disease from these sources – (and there is often congestion ~~of Bile in~~ the Gall bladder ~~the~~ morbid action of the Liver) The Liver is more or less affected in all cases of fever & on these sources – there is often congestion of bile in the gall bladder – the morbid action in the Liver & inflammation induces an alteration in the bile [illegible] & secretion & excretion

Mr Galvani says that a bilious fever was

5th in the Spleen

6th in the Kidneys -

7th in the Lymphatic glands

in the Skin producing eruption resembling the ..

The Black blood is according to the description of black bile - into the blood

giving the pain Silver a dilation lining for its expansion is there consequently upon will be the cause of the color of the Bowels -

was induced by introducing Hydrogene Gas into the Oesophagus as a foil & tying it up — The bile in some cases mixes with the blood and gives the skin the yellow tinge observable in those cases — 3dly the act on the Nervous System and brain producing convulsions headache apoplexy Palsy madness & Death — hence we often find yellow fever ushered in with convulsions — when these miasmata act on the alimentary canal they induce debility, Diarrhoea & Dysentary — they have been said to act on the blood producing that state wh has been called dissolved blood

but this Discrasia if I may be allowed the expression is the effect of the action of the blood rebels wh as it were pulls it to pieces

this has been very erroneously ascribed to Putrifaction by Sydenham — he however observed that this kind of Blood occurs most commonly in cases where Miasmata have been the remote cause

these Miasmata arise from the Earth in the Morning — they are Rarefied by the heat of the Sun and ascend to the high parts of the atmosphere in the evening they are recondensed

rarefied & condensed air is repelled by the surface of the Earth - that they have no influence - So that the Morning & Evening are the only time they act

Are the Miasmata producing yellow fever the same wh when acting on the bowels cause dysentery? I answer in the affirmative it produces these different effects according as it is combined with more or less Moisture - thus a Mill pond at the foot of a hill shall produce dysentery at the summit of the Hill and yellow fever at the foot of it

Mr Bruce has made this observation hence the propriety of Sydenham calling it "Febris vena" this opinion is held by Sydenham - Jackson Clark & Cleghorn - not only Dysentery but Bilious colic is the effect of this same cause - also the bilious remitting & intermitting fevers but of this more hereafter -

We proceed next to treat of animal Miasmata & human Effluvia as remote causes of disease - However Mortifying it may be to the pride of Man yet it is a fact that we are under the necessity of receiving effluvia into our bodies disease - thus we derive from the pathering

houses – 3rd want of ventilation in rooms wearing linen too long without washing – 4th, Dr. Shaw relates numerous cases of disease brought on in this manner – There is a difference between linen & cotton in this respect. Linen requires to be changed most frequently. The diseases which prevailed in the army in the campaign of 1816 was produced by the following causes, the principal of which were –

1st Confinement of hundreds of people in close rooms – hence disease as produced among the inhabitants of Egypt who crowd together at the over flowing of the Nile – in jails hospitals prison ships & the like – it causes the diseases increased by the crowding of Ship Jail & hospital fevers – also at Schools at some times produces diseases – 3d Bad & improper inequitable diet – the influence of food on the Excretions of great Importance before 4th from a hybrid animal diet – 5th from a scanty quantity of food – 6th a certain affections of the mind – 7th from a mixture of things together – Dr. Adams mentions cases of plague from this bad air disease was generated in the American hospitals during the

the Disease formed in any of these ways we call it

Its activity in the Causes of Disease in an

[illegible] in relation to the introduction of Cloacals into it — from his enumeration of the Species [illegible] Animal Morbid Poisons are derived — [illegible] also to explain its frequent occurrence in time of War — from the [illegible] of gelatinous — their being [illegible] to the introduction into regiments & [illegible] of large [illegible] — given over a [illegible] element — [illegible] — sometimes dead animals — the collection of strangers together & infections of [illegible] of soldiers leaving their homes being forced in other ways [illegible] a [illegible] contained in tents & produce disease in this manner — Famine & Pestilence [illegible] closely [illegible] — Shakespeare accordingly [illegible] "Rags" [illegible] "over empaled at the feet of Caesar when [illegible] and dead" — a sublime Idea —

Can a human body infect at death? I answer yes — by the [illegible] of a Particular mode on the extremities of the excretory [illegible] — it then acts as a stimulus & [illegible] a time [illegible] as [illegible] Fever —

Fever &c

Letter No. 5th

The following circumstances deserve to be recorded as in the history of Human Rheumatism. In the first place it is more frequently epidemic and more active in winter than in the Summer Season — [illegible] the [illegible] — the action was much milder in hospitals during the Summer than in the winter — The reason probable is that in Large Hospitals are kept hot Rooms and Wards and in Rheumatic Diagnosis & become more active — in the house of Commons [illegible] War in the year 1777 the Rebels were [illegible] and raged in April. The weather became warm in May and the doors of the house and windows were opened the Rheumatic Dyspepsia & the Diarrhoea disappeared entirely — on or about the 20th of May however a cold Shift of Weather commenced — the doors & windows were shut & in close — the consequence was that the cholera came on again with great Rigor — Diarrhoea & destroyed

two

* Tiddlers & Pacing -

* Whole family suffered by it

two of the Surgeons* and one mate [illegible] died in

[illegible] Quantity — Blane mentions several circum-
stances corroborative of this fact — he says the [illegible]
fever was always most violent in proportion as they
approached the Coast of Great Britain & uniformly sub-
sided when they got near the coast of the West Indies
the Sailors in the former case remaining below deck
to avoid the cold moist air — and in the latter they
remained a great part of the time above deck — in the
invigorating air — The dispersion of [illegible]
& concentrate [illegible] Effluvia is evident in the
Yellow Fever — This disease is never contagious
in the West Indies & [illegible] as it is [illegible] in Septr
when [illegible] of contagion to occur [illegible] the [illegible]
[illegible] being then [illegible] & the Effluvia concentrated

A second Circumstance in the History of [illegible]
[illegible] deserving attention is that it [illegible] & [illegible]
[illegible] [illegible] considerable time [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] round his neck [illegible] of a [illegible]
[illegible] [illegible] to Months
by wearing a Coat taken out of his trunk at the*
[illegible]
[illegible] [illegible] report [illegible]
[illegible]

[illegible] Typhus fever from Cockermouth

I presume after a lesion which has been left of it to

right for some time [illegible] to set

aside patients convalescent in the Hundred of the same

[illegible] the Leprosy of the Jews was

formerly [illegible] & contagious as is believed to

the walls of their houses for a long while —

This is a curious circumstance that the contagion of Typhus does not appear to reside so much

walls nor to floors of Barns — The pestilent con

age notice this fact — Cornwall, Devon & the

various mountain districts also

be provided in Students hands — the never actuated

there covered with beards or any other instance

for my reason — nor are Fleetham constitutes —

Dr Fletcher observed the same fact occurring in

war — A 3d circumstance is to be noted to is that

these Miasmata are most powerful on a

Debilitated subject & seldom have recourse to any

[illegible] existing operation — hence

pregnant women & people aged, fares seldom be

affected with Typhus — in the former since the

of destruction — in the latter of the other

[illegible]

prevents the elimination of the virulent dust if the
virus is once in the common cellular tissue they are liable
to the disease — the circumstance of rabidity depending
to prevent the elimination of pure Hydrate serous
and capable it is to remove our fears to prove the
Neighborhood of the Hydrate serous in the system
for their reclaim, will render them liable to relapse
if exposed to the virus — after the infection takes
place it is impossible to Subdue ~~it entirely to its influence~~

The violence & certainty of ~~the disease~~
their operation is increased by the presence of the
virus in the blood or the time elapsing between
the bite, we have reason to conclude
Science also gives to the common cells but
the process from a few minutes then the
Saliva Hydrate matters a case there is disease
or death, which has caused more injury in
the Hydrate or less a Hydrate atom but Bail-
ey is of the opinion the same of the virus of
hydrophobia is owing
to a retention of certain effluvia excretion of animals
and more of the pure other —

"20,

9th Depression of Mind

[illegible] caused the officers [illegible] leading [illegible]
[illegible] most of the Indian [illegible] work of the
[illegible] attack of the disease

* [illegible] omitted [illegible] in the [illegible] as I have not
[illegible] attained his common perfection. It occurs [illegible]
[illegible] cause of [illegible]

[illegible]

[illegible]

It is called Typhus, Typhoid, Jail Fever, Hospital & Ship Fever & by Cullen & others Typhus mitior — These are all one disease — it is produced by miasmata which is chronic & comes on gradually frequently continuing being succeeded by a chill or rigor or some more observable symptom — [illegible] The action is first on the arterial system wh it quickens & renders irregular — It acts also on the stomach & alimentary canal excites vomiting & bile & watching & diarrhoea in a few cases the skin is affected —

The causes in general are excess in [illegible] or costiveness — Blood [illegible] fluid is [illegible] in different parts of the body — Bubos swellings of the neck [illegible] — often [illegible] — The bile in some cases is changed — from the [illegible] opinion a second grade of the blood —

[illegible] of Fever [illegible] the [illegible] is regarded [illegible] the [illegible] cause — [illegible]

Ceiro Numismatic Tracts 1

[illegible] received this Daltons

Salt (or fresh Pork) for salt is best dried
after and rough hailed together in a dry
or damp place and be made to be as the pork
and Rich it over a moderate fire and
then press together as you remove a
Pat Pye this dish is called Commonly
Relights — a most excellent dish for pork
after a large one all but in the Pot at the
same time — [illegible]

To the list of Fevers from miasmata must be added the Influenza which is an inferior degree of typhus matter it is produced from effluvia of living animals & subsisting dead animal Matter — Empiric takes notice of this —

Where typhus matter accumulates it is distinguished from the diseases of the North Miasmata — 1st in mentioning all the seasons of the year but more frequently Spring & Summer where as Yellow Fever prevails in autumn & Principally — In typhus there are no intermittens as Contagion is true as in Yellow Fever — and in typhus there is seldom discharge of bile — 3d from the action of typhus being more moderate than those diseases produced by marsh miasmata seldom requiring bleeding

Denotes the prevalence of typhus in Scotland the idea of Dr Cook & others more than 6 years ago with shows the action of the secrete matter — It shows it is contagious — Yellow Fever and diseases from Marsh effluvia are not — 4th this may be proven from a Knowledge of the

of the remote cause — In autumn the Marsh Miasmata act most commonly —

Bilious Fevers as they are termed are to be distinguished by 1st they occur principally in the autumn 2nd from Remissions & discharge of Bile — 3rd from their marked action accompanying them Vomiting 4th from being in the Vicinity of the remote cause Marsh effluvia — 5th from the prevalence of heavy rains checking them — 6th from attacking robust individuals the most robust —

Dysentary arises, either from human or marsh effluvia — but I think most commonly from human — The different methods of treating Bil Fever accompanied with not or little morbid action caused me to be thought wrong in my Idea of it — but as in bilious Fevers some cases require bloodletting & Some are cured by Stimuli so in the Typhus — I would as soon bled in the Typhus, indicated it as in any other disease — Typhus is produced by putrefying Dead and the effluvia of living animals

Plague only from the excretions of morbid living animals — Take notice Quot^n of Air

of the distinction & shews the necessity for cleanliness in the disease. Place it is a wholesome rule to guard against the action of the remote cause —

Again Sewers from Marsh Miasmata cannot be carried to foreign countries but from what has been said it is evident that Typhus Fever can —

Quarantine Laws are therefore calculated only for the prevention of those diseases produced by human effluvia — These may be readily known from those of Marsh Miasmata by the Inguinal Swellings or bubaes — This Symptom does not occur even in the worst cases of yellow Fever — That the Plague is produced by Miasmata of Human [illegible] bodies is believed now by Simple Minds — Empirics . . . . . in Egypt it is supposed a disease resembling yellow Fever has been first seen by the overflowing of the Nile which is not genuine Plague —

We proceed now to the third Source of disease from foreign Impregnations of the atmosphere viz Phlogisticated Air — this exists in wells & cellars in some cases many cases of Death have arisen from it — You must all of

all so, we have seen at the mouth of some English men who were confined in a place called the black hole in Calcutta — a place filled with phlogisticated air — the poisonous vapour destroyed the [illegible]

[illegible] the [illegible] in a small room always goes to the [illegible] into a state of vapour [illegible] the impure air [illegible] to think the present servants of children are owing to the **accumulation** of impure air in close confined rooms. [illegible] who could not go into an evening company for fear experiencing a vertigo or [illegible] from the coarse and a gentleman in whom the fact was excited by a close room [illegible] in a point in the lecture

Epidemics as we call first received in [illegible] from-bilies hence its name "Febris Carceralis"

The air is impregnated with foreign matters by the combustion of certain substances as animal this gives it a great unwholesomeness — Sulphur vapours are in such it is hence unwholesome by the production of volatile vitriolic acid — This is found in the combustion of common coal — it

* [illegible] Philadelphia

it also irritates the lungs very much — Dr. Ramsey says that he was informed by Dr. Gardiner of Charleston S.C. that a number of years ago — the inhabitants burned coal are winter — but the number of Catarrhs was greater that year than he had ever known before, & again that cause so that first left it off

5th The air is adulterated ~~from~~ by certain effluvia from Manufactories especially such as Lead Sulpher & arsenic are used in — Some particles of the Lead are volatilized & so impregnate it

6th Some in the Morasses & effluvia exhale from certain plants — hence the Night air is unwholesome from their discharging it at that time — Bruce says an exhalation from the Ground rises & co operates with this cause — the Hermatan or as Bruce calls them the Samoon winds are unwholesom by flapping over large beds of Bitumen wh give out volatile Vitriolic acid — it is said that persons who die from respiring this Samoon winds generally in a few hours. Now we know the Vitriolic acid to be antiseptic but the cause of this putrefaction you will hear hereafter — 8th Sirocco winds — these prevail at

(Lecture 26th)

It is well to note some of diverse inconvenients which the atmosphere — the need in order to a conservation of pure or oxygenous air in the atmosphere — Still there are great diversities particularly which are to be considered — and diseases — another cause which renders air fatal is mixture by the 3rd force air called by Priestley Fermentation which he considers to be exhaled from the earth in certain parts — the last two are records some of near a Town called Senar on the Banks of the Nile — Man is not affected by this effluvia as animals who respire from near the Surface of the Earth — Dr Pai was remarkable the animals that died from this cause were no signs of disease — The place where Mr Bruce observed it was in Latitude 13° North Longitude 30° East from Greenwich — it is also remarkable he says observed in rainy Season — The Lunar Rice & Millet are the only plants which are found near this Spot of earth — and these plants are known to thrive in Mephitic air — The

The Earth at this place affords much Salt lus
-excavation - Mr. Bruce has observed this in
another place from the one just mentioned & he
observed it to induce a pricking pain on his foot
when his air produces death in plants - Tobacco at
present comes from an excess of this salts -

It is grand next to enquire into the effects
of particular situations on disease - This dif-
fers according to the state of cultivation -

New uncultivated Countries are always healthy
- Death is so rare an occurrence in some
of our western frontiers that people collect in
crowds to view its effects on human animals
when it occurs - New countries are up healthy
however if the soil is moist and exposed to the
action of the sun & back of the woods prevent
the winds or healthy - Cities in Delaware state
the least act of cleaning by ennoble the general
for disease - as the removal of the dirt attends
the steps of the sun & enter to the Market & round
which they thrown - And to improvement &
horticulture that become healthy - Trees

healthiness of the Northern & Middle States
a few years ago were much up to - the
reason of this was the cultivation did not
go so rapidly in consequence to clear as in
Virginia and Maryland - - Time proves
the healthiness of Connecticut which was yet
was very subject to bilious Fevers 60 years ago
but Dysentery is now more common in
the country owing to the rapid food prevail-
ing more than in cities - Cities are the
Vales and Prisons of the human Species -
Cain we read in Genesis was the first who built
a town. His object was probably to destroy
by the Bustle of a town the remorse he felt
for having murdered his brother — The air
of Cities is impure from many causes from
Manufactories Docks Privies Gutters &c - and the
respiration and <u>combustion</u> continually going

going on detracts much from the purity of the air. It is said in Cities that 3 of 5 persons die before they attain the age of 80 – near twice as many deaths occur in Cities as in Country – Dr. Price thought no person should go to London under 30 years of age – The Miasmata of Cities generate Typhus Mitior consumption & brilliant diseases – Dysentary does not prevail as I observed in Cities so much as in Country – from the use made of Sea Coffee wine & animal Food while I was a Student at Princeton College a fort aroused the bowels to action – A Dysentary was Epidemic among the Students – but no Student from from N. York or Pennsylvania was affected by it – because they had been used to the food they got at College – where as the others had been used to live on Bread & Milk and the change of Diet brought on Dysentary

The quality of soil has an influence on the air – if it be sandy the air is much hotter – Inflammations of the eyes are common on sandy soils

Lastly situation has much influence –

Continuing

Mountainous are much more healthy than flat
low countries hence we find there are fewer deaths
and more old people in the Alpine mountains of Switzerland
than most other part of the world — Perhaps one
reason for this may be that Mountainous Countries
are covered usually with ever greens — There are
2 exceptions to this rule Calcutta & St Domingo
i.e. the elevation of hills are healthiest accord-
ing to Dr McClain — This must be accounted
for by the great heat of these countries causing the
greater ascension of the Miasmata which are attracted
and condensed by the cold on the top of the mount-
ains — the same thing occurs according to
Dr Palmer on Smyrna — Bounds to towns
cities or villages or to marshy grounds in the
country appear to follow remittent & intermit-
ting Fevers — for disease to be produced in
this manner it is necessary for wind to blow
over the ground — How far can these Miasmata
be carried — It has been said 50 miles
Dourthrow says 20 I have known a case
where at least constantly carried 10 Miles on
the bank of the Susquehannah — since the

Fever & Ague is very great degree
indeed of course should be left between Marshy
ground & dwelling houses in the country —
the exhalation from rivers is only from the
banks not from the middle of the rivers —
the famous Breakbone Fever of 1780 extend
no further than Market street and a few
streets from the Delaware — Mill ponds and
a fruitfull source of disease in the country —
and gentlemen informs me that he never
knew an instance of Bilious fever till within
these 25 years since when Mills have been
erected there & dams across Mill
ponds have that not be prevented — &c

6th Vicinity to Deserts has a great influence on health — The Scirocco winds for instance are nothing more than pure air heated and dried by passing over Sand near Aleppo — Mr Bird one speaks of their coming to Naples — 7th Occasionally a peculiar quality arises in alteration in the air of a town — Now the temperature of the air of towns has been much warmer since the destruction of the woods & the cultivation of Burgoos, Germany & other Northern Countries — The change then effected is merely in the sensible qualities of the air — The coldness of this climate will be much relieved probably when the woods near the lakes and on our western frontiers are destroyed & the Prairie cultivated — The air of an island or sea shore has some peculiar properties which is in it antidote to 3 diseases asthma Pulmonary Consumption & Rheumatism and probable to all others — This seems in many other cases to be a collection or mixture of air — as in Military hospitals The Plague which destroyed Sores not the Smell was abominable & none never sucked — & yet

and yet when I have come out into the open air I have vomited — on what does the unhealthiness of the Sea Shore depend? It's moisture has been held to cause it — but I think it depends on the Saline particles — Why then does it not occur at Sea? Was not this be counteracted by the motion of the Ship at Sea imparting vigor to the constitution which enables it to resist the action of these Saline particles

In diseases of moderate Morbid action this air is medical — perhaps the air may be too pure here — since it is said that Consumptions are more quickly fatal at Nice than any other place — Several other ~~seat~~ Local Circumstances affect the air — those who reside in Cellars are uniformly unhealthy — are generally of a pale color Consumption & Rheumatism affect those — houses newly plastered are unhealthy — perhaps from the moisture — houses surrounded with trees are unhealthy by confining the exhalations near the houses — Some situations are healthy & we know not from what cause — Thus there are cases of Malignant fever in a small court

tacent called Lachanies Court where no local circumstances appear to account for the fact — again I observed in 3d Street between Market & Arch Street — Some years ago 10. or 12 Deaths occurred on the west side and only 2 on the East side of the Street in the course of 9 years — This might have arisen from a current of infected air flapping against the west side of the Street only — or perhaps it might have been owing to a specific contagion — The influence of Seasons have already been spoken of — I know in February & March produced from the reflection of the rays of the sun sore Eyes which were almost epidemical — A great Reading from Lancaster to this City had this sore Eye & Eyes must be blamed from this cause — The

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The presence of Light has an influence on diseases I have mentioned some persons who cannot sleep without a light in their rooms — Exacerbations of fevers are some times owing to this cause — I have taken some pains to discover whether the Thunder & Lightning have any influence on the atmosphere wh affects health independently of the Change they produce by the alteration of the course of Winds — I have only been able to find one fact wh renders it probable & that was the case of a lady at Sea who was able to tell whenever a Storm was coming on & when it was about to come from a headache caused by the Electric fluid in the air — Earthquakes & [Auroras] Borealis have no other influence on the System than what they produce thro' the medium of the Vapours

In Barbados Dr Lane says they chase away all acute & Chronic diseases of the Island — The effect of explosion of Cannon & other loud noises in some cases produce deafness — 2 cases of this occurred during the Revolutionary

war

nor

a slight fever is produced at first onset of a battle from this cause — Dr Cullen mentions a case of Epilepsy produced by the noise of a horses foot in the street — The citizens at the Battle of Situation tho the weather was very cold felt a burning sensation from this cause in their ears and a warmth all over — Small

here make a few observations on the effect of Situation on Persons — 1st persons who emigrate from one country to an other. more especially a hot to a cold climate are disposed to fevers — some times they undergo the heat but more frequently during the second year — this is called season

ing

ing. 2nd Persons who move from a Sickly to a Healthy Neighborhood against diseases which they have escaped not by not removing from the Sickly situation — here the change of air acts on the exciting cause — it is new Stimulus to the system as not accustomed — 3rd People removing from a healthy situation frequently die from the effluvia of the animalcules of the atmosphere whenever they happen to go into a sickly situation or remain long in the neighborhood of Marshes — 4th Persons after long Sea voyages become subject to Catarrhs by a mixture of land & Sea air — A Sea Capt with whom I sailed in 1766 could tell his approach to land by his sneezing

5th

6th Change of air influencing disease is change of climate in change of climate disposing to the diseases of the New Situation —

The influence of the Moon are obscure & must not neglect to notice them — the influence of the Moon acts in all animate & in animate Nature — on Water — Vegetables — Oysters

nearly the lowest link in the chain of animals - It operates disposing the latter to other their mentioned its influence on disease is noticed by Dr Balfour at Bengal he observes that more deaths occur 3 days before & 3 days after the full & change of the moon than during the same time in other parts of the month - he has written a very learned and ingenious treatise on this subject well worth your perusal - Dimbrock long ago made a similar observation - Dr Johnson made the same observations at Jamaica — also

also Jackson & . . . . . 2nd Influence of the Moon is particularly in Epilepsy – 3d in Mania hence Madmen are called Lunatics 4th in Women – 5 In Hydrocephalus internus – 6th In Haemoptises or Spitting of Blood – 7th Its effects in fevers & Chronic Cases is very remarkable – 8th Fuller relates a case on the authority of Bonetus Exacerbations which the moon had a very particular influence on a Patient with calculus in the bladder 9th Killpatrick says the Moon has an influence on the number of births – 10th is in the full of the moon Eclipses of the Sun & Moon have some influence on the Lady-Lord Bacon fainted at the Eclipse of the Moon Dora is said died at the moment of an Eclipse of the Sun – 12th Spranquier mentions that 20 Soldiers in the army of the Nithersans were seized with the apoplexy at an Eclipse of the Moon 1746 —

We come next to treat of Specific contagions – these I have taken pains to find out Books that are written on them make them out to be much more Numerous than they really are the original Specific contagious diseases

are

are the Small Pox Cynanche Scarlatina & Febrina — Vertigo — Vomiting, Cough Chicken Pox — & Influenza — The Small Pox — It is not to be known before the eruption on the skin but a headache pain in the Back weakness & Loss of appetite of the Stomach — the tongue & throat as well as the skin are affected with Small Pox — the cough & salivation are attends the Small Pox — the time for the eruption appears after the contagion has been in the System is generally from 14 to 20 days generally the former on the score of inoculation & refer to the 2nd Vol of Ages & Diseases ——— Cynanche Scarlatina

Scarlatina & Maligna & Anginna — these have been supposed to consist of different specific contagions — but I think they are all a modification of one — for an account of this I refer to Cullen & Johnsons treatise on Sore throat

This disease is accompanied with more or less morbid action — of course require different treatment — It probably depends on the insensible qualities of the air —

— from 2 facts relative to this disease — 1st it is the most universal contagious disease — it affects not only a city or a country but in some cases the whole globe — 2nd It is less affected by climate than any other contagious disease — if you read the account of this disease in Jamaica and then in Tenerife you will think them a species from each other

III The Chicken Pox is the most mild of the contagious diseases — I have never known a case of it prove mortal

IV. The Meazles this disease has a specific action on the skin & lungs it is more Mortal

Mortal from the small Pox — I do not suppose this to be the specific effect of a bad regimen —

V — The whooping Cough — . . .

VI. Influenza — that the atmospheric System & lungs this disease I do not believe is changed by Winter, or the sensible qualities of the air — because we find it the same in all changes of the weather — I have seen it epidemic in this City 5 times and never once changed by dryness — moisture cold or heat — 2d — it affects Neighbouring towns & countries in succession — 3rd it has evident marks of being contagious in every country & here it is highly inflammatory and other requires bleeding the

The Small Pox is of a more inflammatory nature in Winter than in Summer when it is accompanied by bilious Symptoms — The Scarlatina applies to the measles — Dr Watson says the Measles has some been malignant — The Scarlatina ~~Cynanche~~ anquina is more affected by the Invisible qualities of the air than any other Contagious disease

I shall conclude this Lecture with the following observations on epidemics — 2nd no. 2 Different contagious Diseases can exist at the Same time in the blood Vessels — The Small Pox & Lues Venerea with minor no[illegible] never exist at the same time — Mary queen of Scots is said to have died of the Small Pox & Measles at the same time — This I do not believe but no. the Measles & each some what changed by the combination — I have as soon believe a horse can trot and pace at once — Hence we hear of reigning Epidemics — one Superior in force assumes the Sovereignty and all diseases near its liveries — Thus fevers in the Autumn of 1783 were all marked with Symptoms of Scarlatina — Thus fevers partake of the Symptoms of the Small pox according

according to Sydenham — Whitlam remarks a fever attended with the Symptoms of the Small Pox as Sweats Eruptions — aphthae sore throat &c —

I cannot omit to call your attention to this fact it was taught me first by Dr Sydenham and has been of more use to me than any one fact I know of in Medicine —

Lammazzani tells us that Dr Barnsley Principal Physician at Vienna informs him of a Camp Fever which prevailed in the army that proved fatal in effect on the soldiers convalescents made from having the secretions poisoned until he heard that the same fact occurred also in the Enemies camp — Hippocrates in Minorca says — at Broiled legs just on the Type of Bilious Fevers denoting the prevalence of that ~~fever~~ Disease — [The Measles which prevail now in our City partake of the Nature of our autumnal Bilious fevers hence I explain the affections of the Stomach accompanying them

Feb. 18th 1801 —] and all the

and all the diseases of 1793 partook of the nature
of yellow fever — Many a Phenomena I might
cite will be explicable by a knowledge of this fact
which you could otherwise not at a loss to explain
If this fact be of as much use to you as it has
been to me, you will be compensated for your trouble
if I cease not to mention another in the course of
my Lectures — For ignorance of it has been a great
cause of quarrels among Physicians — Sydenham
mentions that in 1670 that intermittents were
Epidemic & every other disease wore its its livery
even the Small pox in remissions & exacerbations
For 1671 & 1672 the Small Pox reigned in London
in each the disease disappeared for a
while or else assumed the Symptoms of Small Pox
so that your Sci-Epidemics not only force other
diseases to put on their livery but take them from
their presence — Epidemics depend in degree ~~from~~ of
their relative force in the Beginning & end of
their reigns — thus the Small pox is more
powerful than the Measles — when the Small
Pox rages the Measles disappear — but in the
close of the reign of the Small pox the

measles

measles become more active and assume the law-
unity — Fixed the opinion of Chemists that many of
other diseases — in 1814 & 5 in Philadelphia so
rural in — onset — The Measles in this city in
1845 has been all other Diseases — The Measles often
those many the influenza —

5th Contagions do not act on every person
in same times & in the same manner — Thus they
they suppose themselves free from danger — This Rep-
pears from the impression of exciting causes — at
some times more than at others — The prog work in
their attacks into some Diseases that may be
compared to representations of different ships Some
in a Heavy work & others the impression so weak
that it may be compared to a letter done in Water
colors — 7th Epidemics affect a thousand of one
to cause death — [illegible] testimony
* Frenchmen escaped the yellow fever 1819 prevail
here — Jews were exempted from the Epidemics of
Germany & Poland the Indians — The Epidemic
prevailed in France among Englishmen only — &
hence the term "Sailor ~~Complaint~~ Anglicanus"

8th

8th Epidemics affect persons of one color only. Thus at Martha's Vineyard an Epidemic prevailed among the white who did not affect the Indians — & another wh did not affect the white Inhabitants. The Latter was a bilious Fever — according to Ramsay the Disease of South Carolina generally exempted from the Epidemics of the white & vice versa — 9th Epidemics affect persons of one age only, causing in Children & not in adults — & in adults diseases from wh Children are exempt. Hence we may readily conceive that in the time of Moses an Epidemic raged wh carried off only the first born of the Egyptians — Similar facts occur in more concern times — 9th Epidemics are confined to one sex only — Thus in the year 1795 an Epidemic prevailed at Derby in Connecticut wh affected Children of the female sex only — In Italy an Epidemic prevailed wh carried off 60 000 Women and Scarce one Man — 11th Epidemics affect persons of a certain rank in Society only — In 1556 a disease wh was confined to the rich appeared in Holland & Hennen has ordained the Poor to be the first objects of the ravages of the plague — 12th

* The inspectors under a Students of the College of Albtorf were exclusively affected by a Dysentery & prevailed among them ——

** 18th of Insects are influenced by Epidemic diseases they are more abundant during a Sickly Season in the common year and there frequently appear new insects —— !!!

We all know that wet or Rainy Seasons produce great propagations of Insects by a Natural cause — & Dr Rush says that rainy seasons produce disease — now does the Epidemic produce the Insects? Q. E. —

X Pliny in his account of the Plagues of Egypt relates the appearance of flies insects like &c &c accompanied the boils Blains & Ulcers & Pestilence in Egypt — hence we see that Disease & Putrefaction are not opposed to each other

† The air as Increases in the appearance of rain Fail &c —

12 – Epidemics affect persons of a certain profession only* 13. Epidemics affect inhabitants of certain districts or at least may differ with respect to this peculiar predisposition indeed families differ in this respect some more liable than others –

14th Epidemics are confined to certain seasons

15th They sometimes affect other animals jointly with Man as Cats dogs &c – but seldom all animals generally particular species being more liable than others Cattle Sheep Dogs & Cats seem subject to Bilious fevers also 17th Fish in some cases – 18th even insects are affected by them** Many people have noticed the approach of a sickly season from observing the increased number of Musquetoes* – ** It is remarkable however that flies is an exception to this remark for they very often die during an epidemic insects in ~~Egypt~~ frequently accompany the Plague in in Egypt Lemprière has observed insects accompanying Murrain & Plague in Africa – – as sounds have relation to each other so have epidemics with certain other rare events – 20th – Many Birds disappear during the prevalence of an

Epidemic

19th — by Trees & the Fruits of the Earth are afflicted by Epidemics — the former die — the latter are Small Kinds & not much Sooner than common Seasons & and before or after or allowing the prevalence of an Epidemic winds are observed to come from an unusual quarter accompanied with more or less rain — of 1st 10 rainy Seasons I have Lost amounts of 91 of them wer Sickly —

709 The Birds in Suffolk County are increasing as fast as needs — The Trees retard their leaves one year allowing the Epidemic in Pica — the next year the Trees the Birds & Insects

[illegible] because of Vital [illegible] [illegible] with [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Epidemic and those that are confined die in their cases — a remarkable fact of this kind happened at Exeter Barnsley Last year 1799 while they were visited by a genuine yellow fever few birds were visible

Q 1st The Seasons accompanying Epidemics are generally warm but not very cold or Tempestuous

Q 2 The appearances of Meteors & Comets have probably some connection with the recurrence of Epidemics as Palmer-Smith quotes. Eruptions of Volcanoes Thunderstorms &c. &c. it has been supposed that pestilential matter exhaled from the Earth — Great & Mortal Epidemics influence diseases little in Selves — In 1664 a bilious Remittent Fever prevailed in London ..... In 1792 diseases were so inflammatory that bleeding to some extent was requisite for their cure

The Epidemic of 1793 in the United States diseases have required a Copious bleeding & Refuse to yield to the Bark

Decorbeck observes that abortions during the Plague are unusually frequent — and they appear some times here upon of it — Birds fly to different countries as if to avoid it — The air during the prevalence of Epidemics is unusually calm — In the Plague wh appeared in London 1665 and during the yellow Fever in 93 at Phila birds fported per breath & fell heavily through the air — Dr Barnard says

[illegible]

[illegible] Fever [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

Lecture 4th Nov. 1st 1838

The Writer commences this Lecture with the following questions to some of his pupils —

Have the goodness to prove that the Arteries are elastic?

What connection is there in this the Causes which lead to the circulation of the blood?

Can you tell me for what is the reason that there are so many superficial veins & superficial Lymphatics? —

What do you mean Sir, by a Scientific K
what is their structure —

What is your reason for the hypothesis that the
Glands are vascular? —

[illegible]

Lecture 5th

What do you mean by an Diaphasis?

Does an Epiphasis differ from an Diaphasis?

What do you mean by Finite & infinite?

Were angels sent to take Satan in the regions of darkness until the judgment of the accountable world & there be deprived of the power of doing

What is meant by the term Enarthrosis?

What is meant by Diagnosis?

What is meant by the term Symphysis?

What is a Sinus?

What are your conventions as regards?

What are your means in Pancreatorrhoea?

some cases, with a new pancreatic, we must adapt to change its figure and accommodate it with to the shape of the vessel parts. Instances of this may be seen in every part of the human body, as the depressions made in the internal plate of the cranium by the convolutions of the brain. Good medical

[illegible] Bones of the Cranium & face, as well as the Cranial as well as Brain Cases - and in Tumors in the orbit cont. Aneurisms the same effects & mon[illegible] appears in, on the same -

Since there a case in this City wh. has a remarkable prominent forehead, wh has been removed by wearing a compress ~~about 2 years~~ filled with sand and in about 2 years was restored to a perfect natural shape -

I come next gentlemen, to that a part of Lectures wh will be more agreeable, wh is to consider the particular parts of osteology - and 1st we shall consider the Thorax wh with your leave to very particular as to the Osteology of the Cranium as some of the most important operations in Surgery are performed in the Head. Fractures of the Cranium are very common and it important that the Surgeon is well acquainted with the parts that he may be able to judge the extent of the fracture, and there are very important blood Vessels & Nerves wh pass from the it wh are best learned by a particular attention to the osteology of the Cranium -

Dr Pitter - next observed the difference in the Shape of different Skulls as that of the African differing from the European &c - Some of these differences are owing to artificial causes for Instance the Turks wear a Turban round their heads wh makes their heads much rounder than the Europeans -

He next observed that the Cranium was made up of Eight bones 6 proper & 2 common to the Cranium & Face - He then demonstrated the Sutures - observing that there were upwards of [illegible] from the internal

internal parts of the Cranium to the teguments of the head more particularly through the sutures which he wishes his pupils to remember as they are very important in relieving affections of the Brain - "I once knew a man who was affected with a sense of tightness in the head so much so that in the morning as to produce a complete vertigo when he awoke and rose from his bed he was entirely insensible of the place where he was when in his own bed Chamber - he was called Surgeon - & had repeated Cathartics & travelled on foot 18 miles in a day to open perspiration and equalize the circulations all without relief of his complaint. he came to town & I applied Cupping to the Cranium and he was relieved by the first operation and he has always since been relieved in the same way when he felt an approach of the same complaint" ——

Dr H. says he cannot account for this connection but such is the fact

2

When the Pustules become small and flat
apply flannel Pillows and Bath the part
affected 3 or 4 times each day with
warm Salt water — & Ointment —

Sir Lawrence & Lister Lunatics
who seem to be part by fits raving
from a bad liver — Blistering —
Blisters in Some of the Stimulating Liniment
which is Some of the Stimulating Liniment
which is running from part the

Remedies for Rheumatism Chronic

℞ Tinct. Lytta ... ℥ss. or ℥j
... Compt. ... ℥iss.
Vol. Linament ... ℥ij.

form the whole into a Linament — and
Rub the affected part 2 or 3 times a day —

Obstinate Cases have been cured by wrapping in large quantity of Flannel and walk sufficient every day to produce Sweating.
See Scudmore on Gout & Rheumatism page 313.

Stramonium & Lactucarium combined peculiarly useful in when the pains are wandering combined with Lumbago —

KUSHI'S

LECTURES

2